

APPENDIX A

Example of the output of AnalyseDNA.m program
(measurements for a single 3 by 3 montage image)

File#	Subimage	object#	X coord.	Y coord.	Area	Axis ratio	Eccentri- sity	EquoDim	Solidity	Extent	Intensi- ty	Avg. Intens.	median Intens.	201 pik.	801 pik.
1	1	1	12.2897	152.655	145	1.17293	0.522624	13.5875	0.923567	0.739796	4605	31.7586	34	25	37
1	1	2	16.332	416.032	125	1.60594	0.782471	12.6157	0.905797	0.78125	4606	36.848	38	30	45
1	1	3	20.1073	73.8079	177	1.09845	0.413785	15.0121	0.917098	0.691406	4769	26.9435	29	22	31
1	1	4	21.4186	402.744	43	1.36215	0.619004	7.39828	0.914694	0.767857	3690	85.814	87	67	105
1	1	5	27.0938	184	96	1.30887	0.645194	11.0558	0.888889	0.671329	4502	46.8958	49	38	56
1	1	6	30.3622	259.534	206	2.33106	0.903309	16.1953	0.927928	0.715278	6380	30.9709	33	24	37
1	1	7	33.6259	167.573	89	1.34984	0.671696	10.6451	0.927083	0.741667	4225	47.4719	50	39	56
1	1	8	35.0411	167.5726	146	1.25176	0.601495	13.6343	0.929936	0.748718	5415	37.089	40	29	44
1	1	9	37.766	366.021	47	1.84062	0.835422	7.3578	0.87037	0.652778	6667	141.851	142	113	171
1	1	10	49.1078	170.004	232	1.90491	0.851127	17.187	0.852941	0.70303	9832	42.3793	45	33	51
1	1	11	56.0769	126.534	221	1.95704	0.859595	16.7746	0.924686	0.686335	7040	31.8552	33	25	37
1	1	12	52.7755	44.9932	147	1.33627	0.663301	13.6809	0.907407	0.706731	4765	32.415	34	26	39
1	1	13	52.4444	366.954	171	2.27225	0.897953	14.7555	0.872449	0.706612	9378	54.8421	56	43	68
1	1	14	56.4029	282.272	206	1.92782	0.854944	16.1953	0.923767	0.64375	7137	34.6456	37	28	41
1	1	15	57.0648	227.176	108	1.73885	0.818099	11.7265	0.915254	0.701299	4644	43	45	33	
1	1	16	60.1714	333.181	313	1.11194	0.437266	20.0267	0.75	0.326756	15151	48.0984	50	36	62
1	1	17	65.1409	402.414	220	1.70147	0.80906	16.7366	0.920502	0.647059	9809	44.5664	46	35	54
1	1	18	71.8649	443.13	185	1.77678	0.826583	15.3476	0.91133	0.649123	6124	33.1027	35	25	39
1	1	19	73.626	184.854	123	1.71588	0.812622	12.5143	0.91111	0.723529	4841	39.3577	41	30	47
1	1	20	77.4869	132.513	306	1.6379	0.791988	19.7386	0.825681	0.632231	14359	47.5784	50	38	57
1	1	21	78.7377	208.27	122	1.3357	0.662941	12.4634	0.910448	0.739394	4683	36.7459	40	29	43
1	1	22	81.4786	53.5812	117	1.64713	0.794644	12.0033	0.866364	0.642857	4686	40.0513	43	32	47
1	1	23	88.7292	281.534	373	2.17388	0.897916	21.7926	0.917808	0.633333	16109	53.9882	57	43	63
1	1	24	84.1765	341.976	85	1.27099	0.753411	13.0619	0.907692	0.694118	4695	39.7891	42	30	49
1	1	25	89.1608	176.231	143	1.43573	0.805869	12.2573	0.900552	0.626923	15864	48.6626	50	39	57
1	1	26	91.4529	376.924	170	1.36853	0.757011	13.3988	0.927632	0.734375	6429	45.5937	49	37	53
1	1	27	97.7604	317.795	288	1.97353	0.862119	19.1492	0.9	0.606316	10663	45.2303	47	36	54
1	1	28	96.5841	230.363	113	1.09835	0.622119	12.2573	0.921875	0.668639	4540	40.177	43	33	48
1	1	29	96.9492	248.602	118	1.2774	0.622119	12.2573	0.921875	0.668639	4540	40.177	43	33	48
1	1	30	103.033	93.3279	122	1.48415	0.788927	12.4634	0.945736	0.813333	4663	41.2986	43	32	51
1	1	31	103.47	155.507	134	1.5208	0.753411	13.0619	0.917808	0.633333	16109	53.9882	57	43	63
1	1	32	105.356	57.1271	116	1.90339	0.805869	12.2573	0.907692	0.626923	15864	48.6626	50	39	57
1	1	33	121.23	285.08	326	1.70329	0.805514	20.3734	0.900552	0.626923	15864	48.6626	50	39	57
1	1	34	125.532	170.645	141	1.53045	0.757011	13.3988	0.927632	0.734375	6429	45.5937	49	37	53
1	1	35	128.98	60.3355	152	1.75689	0.822208	13.9116	0.921212	0.767677	6815	45.2303	47	36	54
1	1	36	137.083	128.083	266	1.845	0.840375	18.4033	0.796407	0.58462	9810	36.8797	38	26	45
1	1	37	130.902	411.5	164	1.19276	0.54507	14.4503	0.937143	0.788462	7337	44.7378	47	35	53
1	1	38	132.439	352.545	187	1.39705	0.688312	15.4304	0.935	0.799145	5227	27.9519	27	22	35
1	1	39	129.615	16.6154	13	1.15921	0.50579	4.06843	0.928571	0.8125	94	7.23077	8	3	11
1	1	40	136.574	209.099	101	1.12013	0.450346	11.3401	0.87069	0.647436	7293	72.2079	74	58	88
1	1	41	134.455	33.0909	33	1.21149	0.564506	6.48204	0.916667	0.785714	1949	59.0606	60	44	75
1	1	42	140.893	102.008	121	1.47787	0.736306	12.4122	0.916667	0.733333	4808	39.7355	40	32	47
1	1	43	144.864	59.8159	272	1.75519	0.821825	18.6097	0.914708	0.725333	10814	39.7574	41	32	48
1	1	44	147.093	438.435	161	1.3071	0.64397	14.3175	0.925287	0.715556	9000	55.9006	58	44	68
1	1	45	151.46	256.924	224	1.08008	0.377872	16.888	0.937238	0.777778	9854	43.0982	45	33	53
1	1	46	155.688	178.546	141	1.39135	0.695293	13.3988	0.921569	0.801136	7729	54.8156	57	44	65
1	1	47	160.875	342.354	48	1.71551	0.812532	7.81768	0.857143	0.592593	6609	137.688	139	103	168
1	1	48	168.828	11.7677	196	1.42126	0.710595	15.8777	0.933962	0.733333	9931	50.1566	50	39	62
1	1	49	169.613	136.267	217	1.74718	0.820008	16.6221	0.925095	0.5425	7980	36.7742	38	28	45
1	1	50	176.014	356.414	222	1.44188	0.720419	16.8125	0.790036	0.621849	9626	43.3604	46	33	54
1	1	51	175.788	192.983	118	1.13784	0.47708	12.2573	0.900763	0.698225	4671	39.5847	42	32	47
1	1	52	177.181	210.874	127	1.14539	0.487604	12.7162	0.92029	0.755932	4862	38.2835	40	30	45
1	1	53	178.367	410.524	147	1.24127	0.592425	13.6809	0.924528	0.75	9096	61.8776	67	50	72
1	1	54	182.4	392.476	170	1.52768	0.759887	14.7123	0.939227	0.714286	9335	54.9118	58	44	66
1	1	55	189.388	262.719	156	1.81704	0.834936	15.7973	0.915868	0.742424	5030	25.6633	27	20	31
1	1	56	200.742	93.7118	213	1.36983	0.683428	16.4682	0.934211	0.747368	9665	45.3756	48	38	53
1	1	57	189.198	156.725	91	1.04663	0.295161	10.7641	0.90099	0.752068	4188	46.022	47	36	56
1	1	58	209.67	185.871	264	1.96083	0.860182	18.334	0.916667	0.6	9873	37.3977	39	29	46
1	1	59	208.752	70.0435	210	1.69129	0.806478	17.1127	0.94502	0.804196	9766	42.4609	44	34	53
1	1	60	212.584	368.695	197	1.13679	0.475587	15.8376	0.92245	0.724265	7014	35.6041	36	27	44
1	1	61	220.856	60.6237	194	2.67652	0.927588	15.7165	0.92823	0.776	4635	23.8918	25	18	29
1	1	62	216.568	234.29	183	1.34183	0.666785	15.2644	0.943299	0.828054	5078	27.7486	28	21	34
1	1	63	216.292	293.953	171	1.64627	0.79437	14.7555	0.919355	0.692308	5033	29.5497	30	23	35
1	1	64	217.331	330.721	172	1.72537	0.81491	14.7986	0.924731	0.671875	5040	29.3023	31	22	36
1	1	65	217.388	427.1	201	1.29372	0.634448	15.9975	0.926267	0.738971	6094	30.3184	32	25	36
1	1	66	222.926	157.769	121	1.3261	0.656767	12.4122	0.916667	0.733333	4352	35.9669	38	29	42
1	1	67	249.071	488.968	435	3.20117	0.949955	23.5342	0.74359	0.402778	14810	34.046	37	26	42
1	1	68	238.844	265.186	167	1.48408	0.738897	14.5819	0.938202	0.755656	5158	30.8862	32	25	37

1	1	243.509	88.7857	224	1.87991	0.846782	16.888	0.899598	0.636364	8827	39.4063	42	30	49
1	70	248.831	322.144	160	1.79681	0.830819	14.273	0.91954	0.76555	5025	31.4063	33	25	38
1	71	249.234	413.026	77	1.15366	0.498651	9.90149	0.875	0.7	4352	56.5195	59	46	67
1	72	256.345	43.816	163	1.58857	0.777002	14.4062	0.91573	0.679167	4720	28.9571	30	23	34
1	73	257.061	398.848	66	1.03149	0.245208	9.167	0.916667	0.814815	4440	67.2727	71	56	80
1	74	263.602	375.59	251	1.95591	0.860039	11.8769	0.865926	0.576193	10500	41.8327	43	32	50
1	75	264.292	233.801	161	1.65084	0.795652	14.3175	0.914773	0.680324	5136	31.9006	33	25	38
1	76	264.937	209.802	111	1.31512	0.649472	11.8642	0.917355	0.720779	4858	43.7658	45	36	52
1	77	266.137	348.328	131	1.58185	0.774829	12.9149	0.909722	0.682292	9633	73.5344	77	56	69
1	78	276.221	171.24	204	2.05613	0.873763	16.1165	0.918919	0.596491	7051	34.5637	35	28	41
1	79	277.059	285.098	287	1.27833	0.622935	19.116	0.87234	0.650794	10520	36.6551	38	29	45
1	80	278.327	97.32	150	1.10321	0.422329	13.8198	0.920245	0.765306	9202	61.3467	63	42	78
1	81	276.612	391.118	85	1.67318	0.801747	10.4031	0.923913	0.817708	4387	31.6118	55	43	62
1	82	285.905	154.719	231	1.56301	0.76655	17.1499	0.921452	0.675439	8560	37.1429	39	31	44
1	83	285.326	203.688	221	1.75638	0.822092	16.7746	0.863281	0.701587	10251	46.3846	49	34	57
1	84	284.739	355.022	46	1.74017	0.818394	16.6504	0.867925	0.730159	6986	151.87	159	120	185
1	85	291.4	319.71	145	1.13364	0.648467	13.5875	0.917722	0.755208	4940	34.069	35	27	42
1	86	297.651	442.734	192	2.01531	0.868208	15.6353	0.941176	0.793388	5972	31.1042	32	23	39
1	87	293.81	389.276	58	1.25774	0.60651	8.59348	0.920635	0.725	3564	68.3446	70	55	82
1	88	299.182	285.182	159	1.39289	0.696112	14.2283	0.929825	0.757143	5103	32.0943	33	26	39
1	89	300.14	356.347	150	1.31538	0.649643	13.8198	0.925926	0.78125	5369	35.7933	37	30	41
1	90	311.5	260.38	382	1.57517	0.772632	22.054	0.843267	0.590746	16117	42.1911	44	32	53
1	91	308.77	132.894	161	1.15063	0.49465	14.3175	0.936047	0.766667	4966	30.8447	33	24	38
1	92	312.161	21.8111	180	1.62866	0.789304	15.1388	0.932642	0.728745	4915	27.3056	28	22	32
1	93	308.683	204.548	126	1.6436	0.793615	12.666	0.9	0.7	4950	39.2857	40	31	46
1	94	317.72	43.06	150	2.18043	0.88863	13.8198	0.882353	0.595238	4958	33.0533	35	25	41
1	95	315.779	222.448	145	1.21666	0.569542	13.5875	0.917722	0.74359	3048	34.8138	26	28	42
1	96	314.62	396.048	147	1.78365	0.828055	13.6809	0.936306	0.773684	9195	62.551	65	47	78
1	97	319.321	79.6831	243	1.37849	0.688296	17.5897	0.945325	0.759375	8192	33.7119	36	27	39
1	98	327.995	171.85	207	1.17294	0.52263	16.2345	0.928251	0.761029	4993	24.1208	25	19	29
1	99	327.232	313.626	99	1.27981	0.621918	11.2272	0.935962	0.761538	4632	46.7879	50	35	57
1	100	328.895	465.333	153	1.61993	0.788719	13.9573	0.9	0.7	4428	28.9412	30	22	36
1	101	339.875	30.4024	328	2.08737	0.877801	20.4358	0.896175	0.594203	10208	31.122	33	24	38
1	102	335.296	341.101	168	1.36659	0.681577	14.6255	0.928177	0.746667	4848	28.8571	29	23	35
1	103	335.277	326.088	137	1.47087	0.733247	13.2073	0.901316	0.713542	6932	50.5985	53	41	59
1	104	336.608	376.892	130	1.44662	0.722601	12.8655	0.902778	0.666667	4713	36.2538	38	29	43
1	105	340.273	422.859	128	1.82797	0.837097	12.7662	0.920863	0.65641	4609	35.0078	38	29	43
1	106	341.624	392.101	149	1.21343	0.566431	13.7736	0.925466	0.764103	4920	33.0201	35	27	38
1	107	353.93	211.249	201	1.50656	0.747942	15.9975	0.922018	0.732077	8487	42.2239	43	34	51
1	108	352.982	107.865	170	1.49726	0.744263	14.7123	0.909091	0.686239	4955	29.1471	30	23	36
1	109	360.316	246.868	152	1.86075	0.84317	13.9116	0.894118	0.596078	5109	31.6118	35	25	41
1	110	357.882	436.327	110	1.20428	0.572215	11.8345	0.901639	0.714286	4290	39	41	30	48
1	111	361.836	318.493	116	1.31165	0.749922	12.133	0.885496	0.644444	4620	39.8276	42	32	48
1	112	361.357	65	140	1.27314	0.618912	13.3512	0.933333	0.777778	4794	34.6714	35	27	43
1	113	363.058	282.398	103	1.26774	0.614641	11.4518	0.851111	0.526099	12083	31.5483	30	23	34
1	114	377.356	52.6893	383	2.24284	0.895101	22.0828	0.927928	0.792308	4754	45.8681	47	36	56
1	115	369.901	346.09	111	1.32541	0.656322	11.8882	0.908836	0.776224	4428	33.8919	41	31	48
1	116	372.355	389.158	183	1.08717	0.56322	11.8882	0.908836	0.776224	4428	33.8919	41	31	48
1	117	375.494	102.31	168	1.77626	0.82647	14.6255	0.931225	0.871429	4673	25.5355	26	19	32
1	118	377.238	164.669	172	1.55567	0.766024	14.7986	0.910053	0.658824	6590	39.2262	41	32	48
1	119	378.105	487.237	190	1.84387	0.868045	15.5536	0.913043	0.673077	4613	43.9333	46	33	53
1	120	386.803	129.803	142	1.82726	0.836959	13.4462	0.940397	0.788889	8149	57.3873	61	48	69
1	121	387.01	222.932	206	1.62726	0.751547	16.1953	0.923767	0.792308	10014	46.6117	50	37	60
1	122	384.354	305.719	96	1.74508	0.819527	11.0538	0.923077	0.666667	4564	47.5417	48	36	59
1	123	397.856	400.719	313	1.71338	0.812011	19.9631	0.800512	0.610136	14036	44.8435	46	36	56
1	124	389.741	281.944	108	1.86676	0.84417	11.7265	0.892582	0.593407	4669	43.2222	44	33	53
1	125	393.248	318.762	105	1.49311	0.742673	11.5624	0.913043	0.673077	4613	43.9333	46	33	53
1	126	395.708	20.375	120	1.06484	0.34362	12.3608	0.916031	0.769231	4538	37.8167	39	32	45
1	127	402.593	198.495	194	1.83729	0.838903	15.7163	0.932692	0.769841	9702	50.0103	52	39	61
1	128	403.562	362.046	130	2.18492	0.889105	12.8655	0.902778	0.601852	4566	35.1231	37	28	43
1	129	402.298	35.0744	121	1.34169	0.666695	12.4122	0.909774	0.720238	4622	38.1983	41	31	45
1	130	407.174	349.358	109	1.26316	0.610958	11.7806	0.908333	0.698718	433	40.6697	42	31	49
1	131	410.641	432.387	182	2.10237	0.873632	13.4462	0.898734	0.71	4284	30.169	32	23	37
1	132	408.948	170.017	174	1.43507	0.717235	14.8843	0.910995	0.74359	4845	27.8448	29	21	35
1	133	415.673	271.184	147	1.36843	0.682628	13.6809	0.93038	0.765625	4976	33.8503	36	28	39
1	134	419.881	320.856	118	1.70261	0.809346	12.2573	0.887218	0.603128	4596	39.9492	41	31	48
1	135	428.797	224.845	172	1.24283	0.593793	14.7986	0.92973	0.764444	5120	29.7674	32	24	35
1	136	428.437	38.3016	126	1.24199	0.593057	12.666	0.926471	0.75	4585	36.3889	39	30	43
1	137	434.977	106.932	222	1.74232	0.818891	16.8125	0.925	0.720779	7043	31.7252	33	25	38
1	138	432.809	424.282	131	1.70121	0.608993	12.9149	0.92535	0.770588	4251	32.4504	33	24	40
1	139	431.155	477.519	129	1.1451	0.48225	12.8159	0.934694	0.767857	4387	34.0078	35	27	41
1	140	438.675	12.7222	126	1.27989	0.624207	12.8159	0.933333	0.75	4445	35.2778	38	26	42
1	141	441.29	464.766	124	1.3443	0.622199	12.5651	0.918319	0.688889	4658	37.5645	40	30	45
1	142	445.287	152.375	136	1.38301	0.690787	13.159	0.912752	0.709333	5017	36.8897	39	28	44
1	143	452.32	493.598	306	1.66314	0.790545	19.7386	0.918919	0.796875	17726	57.9281	61	47	68
1	144	451.122	370.49	288	1.77678	0.826582	19.1492	0.825215	0.659039	11388	39.5417	42	30	49

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1	1	145	462.718	316.942	291	2.5992	0.323028	19.2487	0.716749	0.534926	9565	32.8694	32	23	43
1	1	146	455.84	345.437	119	1.51711	0.352012	12.3092	0.915385	0.753333	4773	37.5882	39	28	46
1	1	147	459.357	398.325	154	1.73345	0.316825	14.0048	0.922156	0.712963	8038	52.1948	55	42	62
1	1	148	459.428	301.199	201	1.48473	0.739168	15.9975	0.934884	0.755639	4615	22.9602	24	18	27
1	1	149	462.472	163.039	127	1.2763	0.621371	12.7162	0.947761	0.824675	4849	38.1811	40	30	46
1	1	150	465.094	238.432	405	1.32102	0.653423	22.7092	0.89404	0.771429	9811	24.2247	25	19	29
1	1	151	459	185	23	1.22522	0.577796	5.41152	0.851852	0.657143	2687	116.826	118	86	135
1	1	152	469.289	73.604	228	1.63352	0.796399	17.0382	0.919355	0.690909	8169	35.8289	37	28	44
1	1	153	468.291	365.573	117	1.37288	0.685157	12.2053	0.936	0.835714	4553	38.9145	40	32	44
1	1	154	469.261	188.174	23	1.17386	0.523719	5.41152	0.92	0.766667	2572	111.826	115	97	134
1	1	155	477.09	285.407	199	1.33807	0.664436	15.9177	0.947619	0.737037	7638	38.3819	40	31	46
1	1	156	480.109	124.384	138	1.47331	0.735323	13.2555	0.926174	0.704082	4514	32.7101	34	27	39
1	1	157	485.215	212.969	163	1.59846	0.865902	14.4062	0.91573	0.679167	6791	41.6626	43	33	51
1	1	158	493.535	660.384	129	1.46523	0.730898	12.8159	0.921429	0.716667	4590	35.4814	37	28	44
1	1	159	488.198	257.492	197	1.18457	0.536047	15.8376	0.933649	0.769531	6331	32.1371	34	25	38
1	1	160	491.107	428.713	122	1.38074	0.694967	12.4634	0.910448	0.739194	4778	39.1639	40	31	48
1	1	161	500.784	480.579	107	1.30083	0.639559	11.672	0.938596	0.740564	4301	40.1963	42	32	47
1	1	2	16.0133	189.207	150	1.82513	0.83654	13.8198	0.9375	0.789474	5013	33.42	35	26	40
1	1	2	13.3492	92.619	126	1.24511	0.595788	12.668	0.939708	0.75	4636	36.7937	39	31	44
1	1	2	12.7436	254.949	78	1.23686	0.588385	9.36357	0.906977	0.787879	4177	53.5513	54	42	65
1	1	2	21.4605	27.5132	152	2.05913	0.874161	13.9116	0.915663	0.59375	3398	35.5132	38	29	42
1	1	2	24.9889	412.717	180	1.41069	0.705337	15.1388	0.923077	0.714286	7613	42.2944	45	33	52
1	1	2	30.8013	150.013	151	1.5312	0.757285	13.8658	0.937888	0.807487	4834	32.0132	34	25	39
1	1	2	35.9216	117.641	153	1.10365	0.42309	13.9573	0.916168	0.728571	8847	57.8235	60	46	70
1	1	2	32.4386	483.965	57	1.17959	0.530388	8.9308	0.904762	0.791667	7839	137.526	142	104	175
1	1	2	41.1142	68.0551	254	2.15977	0.866352	17.9834	0.927007	0.575964	8532	31.717	32	25	38
1	1	2	46.0943	205.164	159	1.43069	0.715156	14.2283	0.929825	0.719412	5043	37.6589	39	28	46
1	1	2	47.0543	98.2403	129	1.6944	0.807273	12.8159	0.921429	0.661538	4858	35.4783	38	28	42
1	1	2	48.3986	164.971	138	1.40133	0.700548	13.2555	0.926174	0.784091	4896	48.6613	52	38	60
1	1	2	54.1071	128.629	140	1.31888	0.620002	13.3512	0.921053	0.777778	7556	53.9714	56	42	63
1	1	2	61.2347	232.877	375	1.46523	0.730898	11.851	0.902655	0.652174	18248	81.402	84	69	96
1	1	2	68.7059	420.598	102	1.16735	0.515912	11.3961	0.925566	0.654462	10326	35.1049	38	28	45
1	1	2	62.8217	461.434	286	1.44931	0.723823	19.0826	0.925566	0.654462	10326	35.1049	38	28	45
1	1	2	68.6289	183.686	194	1.89744	0.849849	15.7165	0.92823	0.769841	7275	37.3	39	29	47
1	1	2	72.3873	25.8873	204	1.65928	0.797991	16.1165	0.894737	0.647619	4906	24.049	26	18	29
1	1	2	83.1654	62.6808	260	1.92679	0.854775	18.1946	0.9315	0.656566	10031	38.5808	40	31	47
1	1	2	96.7188	481.695	256	2.0471	0.872567	18.0341	0.885813	0.592593	9587	37.4492	37	29	47
1	1	2	94.0154	108.485	130	1.50401	0.746944	12.8655	0.915493	0.738636	4616	15.5077	36	26	44
1	1	2	101.034	160.034	207	1.65907	0.797932	16.2345	0.924107	0.758242	9618	46.4638	48	37	56
1	1	2	106.469	179.934	254	2.25068	0.895873	17.9834	0.92029	0.552174	9484	37.3386	40	29	46
1	1	2	115.615	415.286	455	2.24916	0.895724	24.0692	0.903887	0.530303	19707	43.3121	45	31	56
1	1	2	109.325	462.783	157	1.33362	0.661618	14.1386	0.903887	0.530303	19707	43.3121	45	31	56
1	1	2	112.224	30.2115	156	1.68158	0.803963	14.0935	0.912281	0.65	4684	50.5732	53	38	62
1	1	2	114.738	94.3308	130	2.20139	0.890897	12.8655	0.866657	0.546218	4593	35.3308	36	27	45
1	1	2	113.664	117.473	131	1.89702	0.849777	12.9149	0.879195	0.582222	4551	34.7405	35	27	45
1	1	2	119.492	260.882	185	2.28309	0.989874	15.757	0.928571	0.633117	9042	47.069	48	37	58
1	1	2	120.542	164.685	203	1.63181	0.790225	16.0769	0.931183	0.712281	9555	46.3692	50	36	55
1	1	2	125.017	493.152	302	2.03965	0.871565	19.6091	0.92638	0.770408	16405	54.3212	57	43	66
1	1	2	128.12	375.544	125	1.54817	0.7634	12.6151	0.919118	0.686813	4694	37.552	39	29	46
1	1	2	134.357	246.786	182	1.30577	0.643043	15.2227	0.943005	0.764705	9424	51.7802	54	42	62
1	1	2	134.824	435.275	182	1.39127	0.69525	15.2227	0.933333	0.713725	9568	52.5714	55	42	63
1	1	2	137.463	477.361	205	1.67789	0.802993	16.1559	0.911111	0.719298	10137	49.4488	50	38	61
1	1	2	140.229	112.255	275	2.43852	0.912047	18.7121	0.813609	0.458333	9908	36.0291	38	27	45
1	1	2	142.759	62.396	303	2.76951	0.932909	19.6416	0.733656	0.510101	9815	32.3927	35	25	39
1	1	2	142.844	349.808	125	2.76951	0.932909	19.6416	0.733656	0.510101	9815	32.3927	35	25	39
1	1	2	155.234	38.7854	410	1.13101	0.493153	12.6137	0.925926	0.801282	4627	37.016	38	30	44
1	1	2	145.827	141.547	150	2.62596	0.924652	22.8479	0.742754	0.415822	14441	35.222	36	25	47
1	1	2	171.118	418.674	144	1.38574	0.692274	13.8198	0.914634	0.721154	5019	33.46	35	26	40
1	1	2	169.885	480.963	218	2.03707	0.871215	15.6603	0.904564	0.371429	4475	21.0764	32	24	38
1	1	2	173.468	380.368	171	1.76541	0.821404	14.7555	0.909574	0.7125	4792	28.0234	30	21	34
1	1	2	177.184	451.197	122	1.76541	0.821404	14.7555	0.909574	0.7125	4792	28.0234	30	21	34
1	1	2	178.375	44.5374	122	2.17613	0.88816	20.8979	0.897059	0.717647	4270	35	34	27	44
1	1	2	184.558	101.091	165	2.17613	0.88816	20.8979	0.897059	0.717647	4270	35	34	27	44
1	1	2	187.282	274.494	174	1.47137	0.733547	12.4634	0.859649	0.714583	17821	51.9563	55	42	62
1	1	2	191.89	384.491	163	1.53097	0.752023	14.4943	0.917293	0.739394	4501	36.8934	39	30	44
1	1	2	191.89	384.491	163	2.03959	0.871557	14.8843	0.921788	0.746606	5051	30.6121	32	25	36
1	1	2	201.221	456.572	145	1.86387	0.84389	14.4052	0.910995	0.590476	4760	27.3563	29	21	33
1	1	2	201.162	356.396	111	1.33621	0.662261	13.5875	0.941558	0.690476	4681	27.8466	29	22	33
1	1	2	204.031	41.5031	163	1.76856	0.810281	11.8882	0.880952	0.69375	4314	38.8649	41	31	45
1	1	2	206.779	234.517	145	2.01967	0.868819	14.4062	0.910615	0.740909	4510	27.6687	30	23	33
1	1	2	209.462	328.447	114	1.63903	0.808446	13.5875	0.90625	0.710784	1665	32.1724	33	25	39
1	1	2	218.386	102.956	158	1.21621	0.569165	12.0478	0.926829	0.730769	4550	39.9121	41	31	48
1	1	2	218.981	432.981	157	1.97132	0.861794	14.1835	0.934911	0.615608	460	28.5924	30	23	35
1	1	2	221.277	471.106	141	2.05395	0.873476	14.1386	0.902299	0.635628	4409	33.0993	33	25	39
1	1	2	221.709	401.149	134	1.42444	0.712149	13.3988	0.933775	0.801136	4526	33.7612	35	26	42
1	1	2	222.761	129.658	113	1.06894	0.533312	13.0619	0.911565	0.736264	4524	46.2478	48	36	55
1	1	2				0.590005	11.9940		0.904	0.733766	5226				

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1	1	2	136	485.88	366.669	299	2.80072	0.934085	19.5115	0.89521	0.68894	14065	47.0401	50	38	57
1	2	137	480.732	106.247	190	1.75179	0.821058	15.5536	0.855856	0.566667	8786	46.2421	50	35	57	
1	2	138	492.338	317.287	195	1.3628	0.679385	15.757	0.932014	0.77381	5408	27.7333	29	34	34	
1	3	1	10.098	359.078	102	1.21521	0.56818	11.3961	0.918919	0.71287	5508	54	58	39	68	
1	3	2	14.7415	119.565	147	1.8992	0.850152	13.6809	0.86024	0.576471	5099	34.6871	37	25	45	
1	3	3	16.517	274.364	176	1.45874	0.744054	14.9696	0.926316	0.674059	9866	56.0568	60	45	60	
1	3	4	13.374	374.451	82	1.20928	0.562296	10.2179	0.88172	0.683333	4420	53.9024	56	46	64	
1	3	5	22.7297	323.427	211	1.49712	0.744206	16.3907	0.905579	0.703333	9538	45.2038	47	35	55	
1	3	6	22.7297	353.041	74	1.16551	0.513657	9.70668	0.880952	0.747475	4079	55.1216	56	44	66	
1	3	7	23.7391	366.87	69	1.44756	0.723029	9.7302	0.873418	0.69697	3983	37.7246	59	48	70	
1	3	8	34.5623	50.4478	297	2.56212	0.920687	19.4461	0.818983	0.53902	11784	39.6768	41	31	48	
1	3	9	33.9742	109.832	155	1.63061	0.769875	14.0482	0.933735	0.691964	4887	31.529	33	24	39	
1	3	10	44.7725	455.738	233	1.9878	0.864246	17.224	0.869403	0.647222	9369	40.2103	42	31	50	
1	3	11	51.9162	455.738	233	1.67447	0.80209	15.5945	0.896714	0.636667	9954	52.1152	54	42	62	
1	3	12	62.4292	275.366	191	1.22958	0.581965	16.9985	0.862205	0.608333	9759	44.5616	46	36	54	
1	3	13	65.7559	488.702	213	2.19727	0.890435	16.4682	0.946667	0.806818	7486	35.1455	36	27	43	
1	3	14	63.4132	488.702	121	1.59052	0.806279	12.4122	0.923664	0.756525	4267	35.2845	37	28	43	
1	3	15	73.3548	80.7742	155	1.30361	0.64153	14.0482	0.923619	0.745192	9280	59.871	62	50	71	
1	3	16	79	329.552	183	1.97089	0.861719	15.2644	0.915	0.72619	4967	27.1421	28	21	33	
1	3	17	80.0286	183.648	210	1.46688	0.794543	16.3518	0.923204	0.714286	7257	34.5571	37	27	41	
1	3	18	79.6596	291.823	141	1.25467	0.603949	13.3988	0.933775	0.783333	4830	34.2553	36	27	40	
1	3	19	80.1048	310.169	124	1.39545	0.597472	12.5651	0.923373	0.751515	4607	37.1532	38	30	44	
1	3	20	86.0366	103.451	164	1.35708	0.766515	14.4503	0.916201	0.689076	5296	32.2927	34	25	39	
1	3	21	90.3161	139.787	174	1.67033	0.800986	14.8843	0.920635	0.654135	4690	26.954	29	21	32	
1	3	22	85.1818	504.591	22	1.58172	0.774787	5.29257	0.916667	0.733333	1517	68.3545	68	64	76	
1	3	23	86.5814	72.4186	43	1.89078	0.848695	7.39528	0.914894	0.671875	6443	149.837	155	105	186	
1	3	24	95.9043	437.878	188	1.46558	0.731051	15.4716	0.930693	0.708767	4350	23.0319	23	18	28	
1	3	25	103.775	259.664	271	2.25576	0.896369	18.5755	0.73842	0.778571	4566	38.2362	40	30	47	
1	3	26	101.716	351.385	109	1.36499	0.680653	11.7806	0.923729	0.778571	4566	41.8899	44	33	52	
1	3	27	100.971	381.4	105	1.68452	0.804731	11.5624	0.913043	0.673077	5338	29.3132	31	24	35	
1	3	28	102.731	26.3077	182	1.42607	0.729519	15.2227	0.938144	0.722222	4538	43.219	45	34	53	
1	3	29	108.742	241.381	252	1.52887	0.758426	17.9125	0.818182	0.666667	10076	39.9841	43	31	49	
1	3	30	107.862	291.346	130	1.2305	0.59271	12.8655	0.928571	0.722222	4831	37.1615	37	29	46	
1	3	31	117.68	139.313	128	1.2113	0.564315	12.7662	0.941176	0.761905	4503	35.1797	38	28	42	
1	3	32	117.676	420.303	145	1.53776	0.759681	13.5875	0.91195	0.710784	3963	27.331	28	21	34	
1	3	33	119.99	374.808	104	1.58258	0.775068	11.5073	0.912281	0.673325	4622	44.4823	45	34	55	
1	3	34	124.631	466.313	160	2.13828	0.883905	14.273	0.85615	0.666667	3953	28.7283	30	23	34	
1	3	35	125.541	492.842	133	1.47096	0.713373	11.7265	0.935354	0.701299	4156	38.4815	40	30	46	
1	3	36	129.158	286.64	114	1.81038	0.491128	13.0131	0.85615	0.666667	3953	40.0877	42	31	49	
1	3	37	144.778	301.387	80	1.77028	0.823399	12.0478	0.919355	0.791667	4570	53.9375	55	42	67	
1	3	38	144.778	301.387	80	1.77028	0.823399	12.0478	0.919355	0.791667	4570	53.9375	55	42	67	
1	3	39	144.098	361.596	216	1.26728	0.614272	16.5837	0.935065	0.75	8028	37.1667	39	30	44	
1	3	40	147.37	232.151	119	1.78966	0.829327	12.0478	0.912	0.626374	4590	40.2622	42	32	49	
1	3	41	150.157	435.098	102	1.2221	0.574839	12.3092	0.922481	0.772727	8236	69.1261	72	52	83	
1	3	42	154.435	412.167	108	1.36069	0.678155	11.3961	0.910714	0.71287	3894	37.7843	40	31	45	
1	3	43	158.445	295.712	254	2.29656	0.90022	17.9834	0.915354	0.701299	4156	38.4815	40	30	46	
1	3	44	159.59	30.2537	201	1.64383	0.793681	15.9975	0.934884	0.529167	9778	38.4961	40	31	48	
1	3	45	159.799	272.021	144	1.23912	0.590319	13.5406	0.923077	0.738462	9195	34.7861	36	27	42	
1	3	46	166.637	350.468	267	1.63549	0.796946	18.4379	0.946809	0.794613	10521	39.4045	41	29	49	
1	3	47	170.118	433.126	139	1.42923	0.714457	12.3092	0.915385	0.708333	4156	34.9244	36	26	43	
1	3	48	174.639	471.702	191	1.36163	0.679866	15.5945	0.945545	0.757937	8388	43.9162	45	36	52	
1	3	49	175.864	132.604	154	1.35535	0.675001	14.0028	0.927711	0.733333	6793	44.1104	46	34	54	
1	3	50	182.242	74.0719	153	1.41914	0.709554	13.9573	0.921687	0.75	4953	32.3725	34	26	38	
1	3	51	188.486	428.514	144	2.14718	0.849828	13.5406	0.94441	0.571429	4506	31.2917	33	23	39	
1	3	52	196.816	173.406	293	1.59008	0.777488	19.3147	0.904321	0.636957	21249	72.5222	74	57	89	
1	3	53	194.99	340.259	286	1.78224	0.827754	19.0826	0.923566	0.733333	10276	35.9301	37	29	43	
1	3	54	202.502	293.631	293	2.40846	0.909729	19.3147	0.84438	0.631466	10024	34.2116	36	26	42	
1	3	55	206.054	40.8423	222	1.32324	0.654892	16.8125	0.936709	0.778947	9681	43.6081	46	34	53	
1	3	56	218.937	319.989	269	1.78722	0.827856	18.5068	0.956667	0.68798	10198	37.9108	40	30	45	
1	3	57	217.344	409.796	250	1.92424	0.854357	17.8412	0.916993	0.548246	9609	38.436	39	29	48	
1	3	58	215.452	102.911	157	1.45643	0.727025	14.1386	0.929994	0.548246	9609	38.436	39	29	48	
1	3	59	221.224	468.737	304	1.81246	0.834019	15.674	0.97106	0.603175	20052	65.9605	70	51	81	
1	3	60	224.342	36.0872	149	1.81246	0.834019	15.674	0.97106	0.603175	20052	65.9605	70	51	81	
1	3	61	226.918	451.459	159	1.27651	0.621533	13.7736	0.924419	0.719457	4908	30.8658	33	25	36	
1	3	62	236.586	365.865	237	1.38781	0.693392	14.2283	0.924419	0.719457	4908	30.8658	33	25	36	
1	3	63	235.433	13.5773	97	1.34179	0.666762	17.3712	0.846429	0.658333	5845	24.6624	25	18	31	
1	3	64	238.177	54.8398	181	1.53429	0.758418	11.1132	0.941748	0.769841	4282	44.1443	47	32	54	
1	3	65	242.074	491.788	189	1.30302	0.641115	15.1808	0.92205	0.760504	4749	26.2376	28	21	32	
1	3	66	239.109	254.516	128	1.27034	0.81671	12.7662	0.935644	0.762923	4786	25.3228	26	21	30	
1	3	67	245.439	301.049	285	1.7139	0.81214	19.0492	0.940594	0.652174	8967	39.2578	41	31	45	
1	3	68	244.548	462.484	155	1.8373	0.838906	14.0482	0.922619	0.717593	4694	39.2578	41	31	45	
1	3	69	252.391	36.7091	110	1.05333	0.314159	11.8345	0.92437	0.763869	4359	30.2839	32	25	37	
1	3	70	260.593	69.3094	139	1.93453	0.856033	13.3034	0.902597	0.579167	4447	33.4317	34	26	41	
1	3	71	260.8	23.867	75	1.38481	0.691768	9.77205	0.882353	0.694444	8191	109.213	109	86	132	
1	3	72	260.881	465.983	59	1.68172	0.804	8.66724	0.867647	0.595956	7107	120.458	121	74	167	
1	3	73	265.891	16.1091	110	1.34989	0.677725	11.8345	0.92437	0.769231	4628	42.0727	44	33	51	

1	3	74	270.921	433.627	177	1.27986	0.624112	15.0121	0.917098	0.743697	9749	55.0791	55	42	69	
1	3	75	273.484	87.2433	221	1.7298	0.815964	16.7746	0.884	0.613889	9572	43.3122	45	33	53	
1	3	76	273.822	345.875	209	2.5232	0.91874	16.7237	0.908297	0.619048	9810	47.1635	49	36	57	
1	3	77	287.91	395.184	488	2.04761	0.872635	24.3267	0.741641	0.530435	15133	31.0102	32	24	38	
1	3	78	282.431	190.639	144	1.86664	0.843395	13.5406	0.9	0.666667	7827	54.3542	56	42	68	
1	3	79	288.361	256.084	249	2.68567	0.928094	17.8055	0.778125	0.523109	10486	42.1124	43	33	53	
1	3	80	280.085	492.603	189	1.23762	0.589177	15.5126	0.921951	0.75	4743	25.0932	27	20	30	
1	3	81	283.268	22.6071	112	1.49137	0.741889	11.9416	0.888889	0.622222	4842	43.2321	47	26	39	
1	3	82	286.84	279.133	293	1.2224	0.575125	19.3147	0.951299	0.80728	13463	45.9488	47	36	56	
1	3	83	294.161	204.621	124	1.53691	0.759372	12.0478	0.951299	0.80728	13463	45.9488	47	36	56	
1	3	84	294.161	204.621	124	1.53691	0.759372	12.0478	0.951299	0.80728	13463	45.9488	47	36	56	
1	3	85	294.161	204.621	124	1.53691	0.759372	12.0478	0.951299	0.80728	13463	45.9488	47	36	56	
1	3	86	299.434	349.69	129	1.33034	0.65921	12.5651	0.939394	0.826667	6013	48.5116	51	39	57	
1	3	87	299.08	473.056	234	1.32743	0.657635	17.2609	0.902098	0.716667	6258	36.547	38	29	44	
1	3	88	305.782	329.593	113	1.60776	0.783031	11.9948	0.896825	0.620879	5052	44.708	47	36	54	
1	3	89	308.422	168.492	238	1.37652	0.687198	17.4078	0.929688	0.695906	10710	45	47	35	54	
1	3	90	310.653	41.0155	323	1.64555	0.85465	12.7662	0.927536	0.790123	4686	36.6094	38	28	45	
1	3	91	310.653	41.0155	323	1.64555	0.85465	12.7662	0.927536	0.790123	4686	36.6094	38	28	45	
1	3	92	310.3	258.74	100	1.66277	0.798943	11.2838	0.909001	0.714286	4875	48.75	51	38	58	
1	3	93	316.394	172.431	109	1.70657	0.810332	11.7806	0.939655	0.807407	4791	43.9541	46	34	54	
1	3	94	319.03	158.242	99	1.4078	0.719907	11.2272	0.908237	0.692308	4732	47.798	49	39	58	
1	3	95	320.597	216.664	134	1.40176	0.700768	13.0619	0.930556	0.812121	4915	36.6791	37	28	46	
1	3	96	330.547	267.986	139	1.17331	0.523073	13.3034	0.926667	0.763736	5010	36.0432	36	28	46	
1	3	97	337.579	327.823	271	2.09271	0.878442	18.3755	0.809555	0.6775	10198	37.631	40	29	46	
1	3	98	337.177	395.24	192	1.71739	0.81289	15.6353	0.868778	0.627451	10244	33.3542	34	41	66	
1	3	99	331.564	104.017	172	1.60903	0.783419	14.7986	0.924771	0.754386	9942	57.8023	60	48	69	
1	3	100	336.308	360.632	133	1.15582	0.501454	13.0131	0.923611	0.791667	5241	39.406	40	31	47	
1	3	101	342.452	380.048	124	1.40329	0.701558	12.5651	0.939655	0.807407	4791	43.9541	46	34	54	
1	3	102	351.184	235.709	179	1.78723	0.828814	13.0967	0.899497	0.619377	5078	28.3687	29	22	35	
1	3	103	349.87	267.807	161	1.21395	0.566948	14.3175	0.947059	0.825641	5106	31.7143	32	24	38	
1	3	104	355.573	192.699	206	1.73463	0.8217	16.1953	0.919643	0.64375	7796	37.8447	38	29	47	
1	3	105	362.143	124.473	357	1.28705	0.629539	15.0121	0.931579	0.743697	4816	54.2913	57	40	67	
1	3	106	365.192	19.6384	177	1.06965	0.354947	12.0478	0.912	0.730769	4537	39.7982	40	29	50	
1	3	107	364.781	79.4298	114	1.4471	0.722819	12.3608	0.944882	0.8	4689	39.075	40	32	46	
1	3	108	364.542	350.4	120	1.4471	0.722819	12.3608	0.944882	0.8	4689	39.075	40	32	46	
1	3	109	368.913	285.978	46	1.36368	0.679896	14.5304	0.864615	0.638889	6786	147.522	151	117	181	
1	3	110	380.866	338.11	127	1.10286	0.421706	12.7162	0.913669	0.751479	4777	37.6142	40	30	46	
1	3	111	381.023	50.5496	131	1.54793	0.76228	12.9149	0.916084	0.744318	4369	33.3511	34	27	40	
1	3	112	384.055	301.782	165	1.45233	0.74236	14.4943	0.933757	0.808824	9802	59.4061	62	46	70	
1	3	113	386.369	106.795	195	2.07424	0.876114	15.757	0.933014	0.770751	5143	26.3744	26	19	33	
1	3	114	398.813	384.067	134	1.35801	0.676576	13.0619	0.937063	0.812121	4920	36.7164	39	30	43	
1	3	115	402.104	171.906	202	1.96693	0.861118	16.0373	0.918182	0.655844	5475	27.104	28	22	33	
1	3	116	402.82	214.787	239	1.78723	0.810637	17.4443	0.895131	0.683889	13837	57.8954	58	43	74	
1	3	117	407.701	469.368	117	1.49392	0.742919	12.2053	0.936	0.75974	4361	37.2735	39	29	46	
1	3	118	412.597	72.0259	186	2.25991	0.896771	15.389	0.920792	0.673913	4700	25.2688	27	19	31	
1	3	119	420.657	404.54	137	1.87173	0.845318	13.2073	0.913333	0.652381	6163	44.9854	48	36	54	
1	3	120	421.21	439.79	100	1.74133	0.816664	13.2073	0.913333	0.652381	6163	44.9854	48	36	54	
1	3	121	421.597	210.642	67	1.74133	0.816664	13.2073	0.913333	0.652381	6163	44.9854	48	36	54	
1	3	122	428.803	126.659	132	1.77433	0.826053	9.23618	0.884956	0.666667	4125	41.25	42	32	51	
1	3	123	428.429	468.698	112	1.37134	0.684287	12.9641	0.917808	0.697917	4008	59.8209	60	47	73	
1	3	124	440.679	30.7668	193	1.35339	0.673829	11.9416	0.923077	0.781065	4590	34.7127	35	27	43	
1	3	125	441.736	399.443	246	1.83016	0.871524	15.6759	0.92562	0.8	4511	40.2768	42	33	48	
1	3	126	439.733	202.893	75	1.39449	0.696963	17.6979	0.919048	0.706586	4646	24.0725	25	19	29	
1	3	127	439.909	324.977	44	1.92194	0.85398	9.77205	0.933561	0.719298	10094	41.0325	42	32	50	
1	3	128	444.902	155.214	173	1.35723	0.503268	14.8415	0.920213	0.720833	4938	28.5434	30	22	35	
1	3	129	445.937	448.147	95	1.25669	0.592769	6.57952	0.85	0.904762	0.730769	4531	47.6947	48	36	59
1	3	130	444.353	188.412	34	1.24166	0.592769	6.57952	0.85	0.904762	0.730769	4531	47.6947	48	36	59
1	3	131	447.062	79.8769	130	1.11577	0.443558	12.8655	0.925071	0.77381	4603	35.4077	38	28	42	
1	3	132	449.534	47.0451	133	1.06714	0.349099	13.0131	0.90762	0.678571	4683	35.2105	36	27	42	
1	3	133	450.026	354.36	114	1.28391	0.627186	12.0478	0.942149	0.74026	4701	41.2368	42	32	51	
1	3	134	460.248	103.075	226	3.00305	0.942929	16.9633	0.984722	0.427221	8764	38.7788	31	24	42	
1	3	135	451.634	476.634	71	1.27897	0.623433	9.50789	0.910256	0.759974	5502	58.5915	60	48	70	
1	3	136	463.959	250.088	148	1.36367	0.678888	13.7273	0.936709	0.788889	4160	37.1757	38	29	44	
1	3	137	466.043	56.1739	23	1.31472	0.649198	5.41152	0.851852	0.657143	2534	114.322	118	89	149	
1	3	138	465.3	63.85	20	1.20283	0.557113	5.04627	0.833333	0.666667	2430	121.5	132	81	154	
1	3	139	474.931	370.517	87	1.37483	0.686253	10.5248	0.878788	0.66231	3493	63.1379	66	51	77	
1	3	140	478.665	164.937	158	1.39125	0.695242	14.1835	0.929412	0.77451	8738	55.3038	56	42	70	
1	3	141	475.295	182.409	44	1.52203	0.753875	7.48462	0.916667	0.698413	6727	152.886	156	111	188	
1	3	142	482.725	413.554	204	1.77631	0.826609	16.1165	0.896678	0.6	9379	45.9755	48	35	59	
1	3	143	485.122	58.085	294	1.44007	0.721431	19.3477	0.869822	0.786096	17665	60.085	62	47	72	
1	3	144	482.755	483.941	102	1.94739	0.858085	11.3961	0.902655	0.708333	5666	55.349	56	37	71	
1	3	145	480.108	43.43	120	1.77476	0.826146	12.3608	0.909091	0.681818	4288	35.4833	36	27	44	
1	3	146	483.899	116.449	158	1.2289	0.581235	14.1835	0.918605	0.70537	4655	29.462	30	22	36	
1	3	147	486.36	345.393	298	1.53534	0.758803	19.4768	0.92553	0.627368	9905	33.2383	35	25	41	
1	3	148	489.322	41.1724	87	1.17086	0.520149	10.5248	0.887755	0.725	3815	43.8506	46	35	52	
1	3	149	495.5	469.406	128	1.50512	0.747379	12.7662	0.934307	0.8	4444	34.7188	35	25	43	

1	150	491.686	286.086	35	1.18938	0.541385	6.67550	0.945946	0.833333	3545	101.286	105	89	117
1	151	497.438	76.3769	130	2.04206	0.871891	12.8655	0.902778	0.637255	4553	35.0231	36	26	43
1	152	499.936	144.508	128	1.24075	0.591964	12.7662	0.920863	0.711111	4856	37.9375	39	30	46
1	153	504.436	285.462	39	1.4306	0.715017	7.04673	0.906977	0.8125	3680	94.359	36	79	113
1	1	20	122.671	152	1.3561	0.675449	13.9116	0.921212	0.730769	4832	31.7855	33	25	39
1	1	22.2081	72.3198	197	1.33473	0.662327	15.8376	0.929245	0.72963	9490	46.1726	50	37	59
1	1	22.1391	148.043	115	1.35777	0.676433	12.1005	0.92	0.716753	4311	39.2261	40	30	48
1	1	23.2774	287.022	137	1.68449	0.800492	13.2073	0.931973	0.805862	6042	44.1022	47	35	53
1	1	26.6026	348.245	151	1.68495	0.804842	13.8858	0.905639	0.695074	7260	48.0795	50	38	57
1	1	28.0294	162.559	102	1.28224	0.626493	11.3961	0.93578	0.784615	4532	44.4314	45	36	53
1	1	36.734	188.764	282	2.88224	0.898094	18.9487	0.817391	0.592437	9658	34.2482	37	26	43
1	1	39.2951	487.681	183	2.36962	0.906608	15.2644	0.805941	0.571875	4775	26.0929	27	19	33
1	1	49.5199	217.316	377	2.96967	0.939086	21.9092	0.821351	0.419355	15415	40.8866	35	26	60
1	1	40.3109	306.084	119	1.46635	0.711385	12.3092	0.923688	0.753133	4745	39.8739	41	29	49
1	1	49.8224	124.27	259	2.13833	0.883911	18.1595	0.793983	0.535124	10090	38.9575	41	30	48
1	1	53.6559	76.3118	186	1.22662	0.579108	15.389	0.944162	0.781513	9469	50.9086	53	42	60
1	1	61.75	496.467	156	1.18007	0.689518	14.0933	0.928571	0.671706	6401	41.0321	42	29	54
1	1	61.8438	110.813	96	1.5645	0.769035	11.0558	0.897196	0.767329	4500	46.875	49	38	56
1	1	70.6453	190.465	172	2.30563	0.901047	14.7986	0.900524	0.532508	5838	33.9419	35	27	41
1	1	69.9144	97.778	81	1.43608	0.717712	10.1554	0.9	0.75	4431	54.7037	58	43	65
1	1	87.8529	100.461	102	1.86101	0.841364	11.3961	0.894737	0.708333	4364	42.7843	46	33	52
1	1	89.3239	66.848	108	1.14834	0.491595	11.7265	0.915254	0.755245	4387	40.6204	43	33	46
1	1	98.8842	183.474	190	2.31245	0.901662	15.5536	0.92233	0.688406	7736	40.7158	42	32	49
1	1	98.8446	473.239	251	1.39113	0.695175	17.8769	0.93086	0.747024	10787	42.9761	46	34	51
1	1	96.8018	353.613	111	1.68667	0.805287	11.8882	0.917355	0.74	4686	42.2162	44	33	51
1	1	96.6612	405.521	121	1.31338	0.548287	12.4122	0.916667	0.785714	4595	37.9752	41	29	46
1	1	98.7228	41.5248	101	1.24005	0.576693	11.3401	0.90991	0.765152	4325	42.8218	44	33	52
1	1	100.188	110.136	176	1.48194	0.738011	14.9656	0.946316	0.739496	3059	28.7443	29	22	36
1	1	101.765	300.97	115	1.86325	0.841776	12.1005	0.884615	0.589744	4560	39.4522	41	31	49
1	1	141.793	141.793	135	2.28411	0.899069	7.81764	0.918367	0.741758	4865	36.0448	36	28	45
1	1	143.708	48	112	1.95296	0.85896	11.9416	0.88189	0.622322	4383	39.1339	41	31	47
1	1	124.705	39.373	110	1.56151	0.769275	11.8745	0.92437	0.705128	4488	40.8	43	33	49
1	1	123.518	39.373	110	1.20716	0.560153	12.7662	0.907801	0.761905	4694	36.6719	37	29	45
1	1	123.016	410.445	128	1.18973	0.676922	12.6157	0.925926	0.757576	4636	37.088	38	28	45
1	1	130.864	80.248	125	1.35859	0.551436	15.2227	0.928571	0.764706	5123	28.1484	29	22	34
1	1	135.816	109.582	182	1.63008	0.801354	14.4503	0.921348	0.759259	4956	30.2195	31	24	36
1	1	140.518	124.695	164	1.25753	0.606338	11.5073	0.912281	0.722222	4404	42.3462	44	33	50
1	1	141.5	164.773	104	1.35544	0.675056	12.7662	0.907801	0.711111	6588	36.7031	39	30	44
1	1	151.336	285.602	128	1.65981	0.798134	14.1386	0.928994	0.654167	4848	30.879	31	25	38
1	1	154.318	473.529	157	1.53578	0.816326	12.153	0.92308	0.644444	4545	39.181	38	29	49
1	1	153.259	431.776	116	1.73133	0.758963	12.3512	0.915033	0.729167	4828	34.4837	35	27	43
1	1	157.479	292.536	140	1.03336	0.252051	14.0933	0.930377	0.742857	9609	61.5962	64	49	73
1	1	160.654	163.442	156	1.71823	0.813434	12.4122	0.896296	0.664835	4553	37.6281	39	29	46
1	1	163.455	141	121	1.72672	0.813434	12.4122	0.913043	0.63	7016	111.365	116	91	136
1	1	164.635	45.5079	91	1.63975	0.792317	10.2179	0.882883	0.7	4307	49.6951	52	40	60
1	1	168.561	331.11	82	1.61962	0.786627	11.1704	0.872234	0.621212	4075	49.6951	52	40	60
1	1	167.286	389.735	96	1.57975	0.786627	11.1704	0.882883	0.7	4307	49.6951	52	40	60
1	1	171.548	331.11	82	2.3791	0.921772	20.8369	0.933741	0.645833	14949	43.8387	45	33	55
1	1	170.747	210.678	87	1.21387	0.566864	10.5248	0.915789	0.790909	4778	34.9195	56	43	65
1	1	172.538	433.169	130	1.4418	0.72038	12.8655	0.915493	0.714286	4816	37.0462	37	29	46
1	1	182.534	195.457	81	1.03532	0.258957	10.1554	0.94186	0.81	4816	59.4568	60	45	71
1	1	188.789	451.247	194	1.66937	0.844831	15.7165	0.941748	0.734848	5054	26.0515	27	20	32
1	1	197.623	222.729	579	1.57599	0.772905	14.0028	0.933333	0.802083	7416	48.1558	51	37	56
1	1	207.162	275.591	154	1.34856	0.670916	14.0028	0.933333	0.802083	7416	48.1558	51	37	56
1	1	208.366	19.4718	142	1.39993	0.699817	13.4462	0.922078	0.739583	4162	31.4225	32	24	39
1	1	216.594	153.421	254	1.67351	0.801835	17.9834	0.897527	0.636591	12587	49.5551	51	37	62
1	1	216.26	292.683	123	1.23562	0.587184	12.5143	0.911111	0.732143	7499	60.9675	63	51	73
1	1	223.36	332.144	125	1.10482	0.425139	12.6157	0.93985	0.801282	4674	37.392	38	29	44
1	1	224.5	17	8	1.19523	0.547723	13.9154	0.8	0.666667	82	10.25	11	6	14
1	1	235.095	181.381	241	2.2866	0.899301	17.5172	0.836806	0.617949	7444	30.888	32	22	39
1	1	230.172	402.352	128	1.20362	0.556529	12.7662	0.907801	0.63441	5212	40.7188	41	31	50
1	1	236.048	79.3832	167	1.40843	0.704192	14.5819	0.922652	0.755656	4581	27.4311	29	22	33
1	1	238.949	345.841	117	1.271	0.617231	12.2053	0.928571	0.75974	4816	39.453	41	30	48
1	1	241.222	378.852	81	1.37505	0.686378	10.1554	0.89011	0.75	6038	74.5432	78	59	87
1	1	252.197	247.61	385	3.61941	0.961075	22.1404	0.819149	0.49359	11357	22.7186	24	18	27
1	1	259.684	354.2	95	1.16027	0.507128	10.9981	0.88785	0.719697	4295	45.2105	47	38	54
1	1	268.682	143.438	315	1.83188	0.837859	20.0267	0.791457	0.686275	9714	30.8381	33	24	37
1	1	272.363	234.679	256	1.57039	0.771041	18.0541	0.911032	0.711111	8749	34.1758	34	28	42
1	1	271.957	343.086	93	1.42886	0.71428	10.8817	0.925581	0.690972	4521	46.4946	47	36	57
1	1	275.395	27.2211	199	1.5295	0.756659	15.9177	0.925581	0.690972	4521	46.4946	47	36	57
1	1	273.804	327.134	97	1.98725	0.860166	11.1132	0.873874	0.573964	4365	45	46	36	55
1	1	278.578	102.532	109	1.46495	0.730775	11.7806	0.866179	0.698718	5405	49.4872	50	37	63
1	1	279.534	305.602	103	1.37098	0.680081	11.4518	0.886793	0.72028	4411	42.8252	44	32	52
1	1	289.613	488.525	261	2.99776	0.942721	18.2295	0.852941	0.466071	9297	35.6207	36	27	46
1	1	283.109	451.764	55	1.89925	0.8085	9.36828	0.873016	0.611111	6359	115.618	120	91	142
1	1	290.576	78.3273	165	1.96088	0.860189	14.4943	0.932203	0.75	5053	30.8242	32	24	38

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1	73	308.012	29.4471	170	1.2847	0.6278	14.7123	0.909091	0.674603	4598	27.0471	28	21	33
1	74	306.881	474.524	126	1.97041	0.861646	12.666	0.893617	0.6	4480	35.5536	38	28	43
1	75	310.759	233.669	299	1.49785	0.744498	19.5115	0.911585	0.679545	20353	68.0702	71	55	81
1	76	323.332	189.744	268	1.56218	0.768264	18.4724	0.867314	0.62037	9821	36.6455	39	27	46
1	77	320.089	159.349	169	1.58065	0.774437	14.6689	0.918478	0.722222	7397	43.7632	46	35	52
1	78	321.261	132.151	119	1.63076	0.785919	12.3092	0.929688	0.704142	4678	39.3109	41	29	44
1	79	331.813	442.724	123	1.51786	0.7523	12.5143	0.938931	0.82	4623	37.6016	39	30	48
1	80	341.061	46.986	358	1.87433	0.845786	21.3499	0.813636	0.587849	15309	42.7626	45	32	53
1	81	340.704	234.099	233	2.05836	0.874056	17.224	0.924603	0.716923	6864	29.4592	31	23	35
1	82	346.781	107.539	256	2.95122	0.940843	18.0541	0.864865	0.463768	7926	30.9609	33	24	38
1	83	346.119	140.637	160	1.20679	0.599777	14.273	0.914286	0.716286	5934	37.0875	39	29	45
1	84	350.881	77.457	151	1.13385	0.471336	13.8658	0.909639	0.719048	5405	35.7947	36	29	45
1	85	351.933	472.913	138	1.57445	0.712395	13.2555	0.92	0.737968	4717	34.1812	35	26	41
1	86	370.368	449.906	117	1.27551	0.620762	12.2053	0.914063	0.75974	4616	39.453	41	31	47
1	87	374.471	160.044	225	1.45907	0.744984	16.9257	0.929752	0.765306	9824	43.6622	48	36	53
1	88	376.337	504.93	86	1.25277	0.602348	10.4642	0.905263	0.781818	3841	44.6628	48	36	53
1	89	389.695	89.1684	190	1.4873	0.629721	15.5536	0.913462	0.745098	6740	35.4737	37	28	43
1	90	397.79	245.253	186	1.89957	0.850216	15.389	0.920792	0.664286	8465	45.5108	47	35	54
1	91	394.991	53.9739	111	1.61906	0.78646	11.8882	0.925	0.822222	4218	38	39	30	45
1	92	409.166	203.284	229	1.69096	0.806392	17.0755	0.946281	0.800699	9687	42.3013	44	34	51
1	93	404.844	33.6234	77	1.69656	0.681557	9.90149	0.950617	0.875	7522	97.6883	97	79	117
1	94	419.253	268.542	356	1.74772	0.820132	21.2902	0.872549	0.585526	12819	36.0084	37	28	44
1	95	408.808	16.7945	73	1.35563	0.675165	9.6088	0.90244	0.737374	7784	106.63	111	84	127
1	96	414.795	347.565	161	2.4258	0.911078	14.3175	0.90444	0.526144	5842	60.0597	62	47	71
1	97	414.418	47.1493	67	1.17547	0.525613	9.25618	0.903405	0.744444	4024	60.0597	62	47	71
1	98	411.019	491	107	2.66142	0.935845	11.672	0.829457	0.66875	3869	36.1189	34	25	49
1	99	420.868	128.549	144	1.4179	0.708939	13.5406	0.91787	0.75	4490	31.1806	33	24	37
1	100	423.104	104.057	166	1.43449	0.716964	11.6174	0.893305	0.627219	4077	38.4623	39	31	46
1	101	426.239	160.553	188	1.43937	0.719252	15.4716	0.930693	0.734375	8843	47.0372	49	36	58
1	102	425.926	63.8969	163	2.88936	0.938199	14.4062	0.835897	0.679167	8227	50.4724	48	35	65
1	103	438.319	109.233	116	1.445	0.72186	12.153	0.913386	0.70303	4171	35.9569	38	27	45
1	104	443.092	158.708	120	1.48149	0.73782	12.3608	0.916031	0.710059	4362	36.35	38	28	45
1	105	448.698	498.14	172	1.7764	0.826499	14.7986	0.924731	0.632353	4888	28.4186	30	21	35
1	106	455.915	28.6154	130	1.30643	0.643502	12.6655	0.928571	0.787879	6559	50.4538	53	40	61
1	107	462.451	83.2254	142	1.20737	0.560366	13.4462	0.928105	0.788889	6157	43.3592	46	35	52
1	108	470.954	328.27	152	2.62376	0.92452	13.9116	0.894118	0.5	4183	27.2566	30	20	33
1	109	465.05	462.9	20	1.08287	0.383662	5.04627	0.869565	0.8	58	2.9	3	1	4
1	110	473.657	118.641	245	1.49531	0.743482	17.6619	0.935115	0.720588	9593	39.1551	39	30	50
1	111	479.737	235.395	152	1.89314	0.849105	13.9116	0.921212	0.666667	5655	37.2039	39	29	45
1	112	489.175	433.993	309	1.50055	0.745576	19.8351	0.830645	0.588571	11140	45.7605	48	35	56
1	113	488.297	19.5034	145	1.7151	0.812432	13.5875	0.900621	0.67321	4612	31.8069	33	22	41
1	1	12.1124	81.2426	169	1.75774	0.822397	14.6889	0.89418	0.625926	5289	31.2959	33	24	38
1	2	26.5433	251.717	127	1.32558	0.65429	12.4078	0.890625	0.690909	4450	39.0351	41	30	47
1	3	31.697	139.273	132	1.36877	0.698164	12.7162	0.913669	0.697802	4420	34.8031	35	27	42
1	4	31.8739	216.532	111	1.69927	0.800701	12.9641	0.923077	0.6875	4555	34.5076	36	27	42
1	5	32.4234	413.772	222	1.64226	0.793234	11.8882	0.909836	0.770833	4359	39.2703	42	29	48
1	6	42.3592	301.33	103	1.28116	0.625105	16.8125	0.944681	0.687307	9624	43.5514	43	34	53
1	7	40.6712	471.441	222	1.85131	0.841564	11.4518	0.890342	0.64375	4366	42.3883	44	32	54
1	8	46.598	35.2864	199	1.47235	0.800686	16.8125	0.925	0.776224	5983	43.1667	44	33	53
1	9	52.8175	226.216	126	1.33284	0.733967	15.9177	0.934272	0.731618	9167	46.0653	48	37	54
1	10	56.0102	81.1371	197	1.15958	0.506263	15.8376	0.919708	0.763636	4550	36.1111	38	29	49
1	11	55.3209	345.187	134	1.09487	0.407181	13.0619	0.930556	0.772549	8944	45.401	47	37	55
1	12	59.7305	465.379	141	1.46864	0.732373	13.3988	0.927632	0.671429	4519	32.0496	34	25	39
1	13	59.9231	102.546	130	1.06579	0.34589	12.8655	0.915493	0.769231	4593	35.3308	37	29	42
1	14	59.8505	253.991	107	1.52309	0.734275	11.672	0.984298	0.631316	4346	40.6168	42	33	50
1	15	77.2771	393.892	166	1.68073	0.80374	14.5381	0.948571	0.794258	8121	48.9217	52	40	57
1	16	75.5	213	106	1.52953	0.75667	11.6174	0.988305	0.688312	4366	41.1887	47	31	50
1	17	78.669	245.197	142	1.37201	0.684667	15.1388	0.923077	0.714286	8487	47.15	49	37	57
1	18	80.7353	114.422	102	1.7102	0.811229	13.4462	0.92078	0.759358	4639	32.669	33	25	40
1	19	85.9789	324.095	95	1.17952	0.530312	11.3561	0.910714	0.772727	4258	41.7451	44	34	49
1	20	89.9514	365.229	144	1.41567	0.707832	10.9981	0.904762	0.664336	4191	44.0105	45	36	54
1	21	89.4218	469.204	147	1.57597	0.772899	13.5406	0.917197	0.685714	4651	32.5764	34	26	39
1	22	122.646	39.3708	178	1.53767	0.759648	13.6809	0.907407	0.65625	4770	32.449	35	25	39
1	23	127.254	246.36	114	1.24309	0.594028	15.0545	0.941799	0.71667	9293	52.2079	56	42	61
1	24	143.249	122.979	233	1.10719	0.429255	12.0478	0.926829	0.730769	4409	38.6754	40	31	47
1	25	183.285	178.486	144	2.33101	0.903306	17.224	0.906615	0.557416	9111	41.6781	43	34	50
1	26	190.814	79.4602	113	1.42191	0.710922	13.5406	0.923077	0.75	5604	38.9167	41	32	45
1	27	193.435	196.613	168	1.25241	0.62025	11.9948	0.918699	0.733766	4431	39.2124	40	31	47
1	28	193.194	360.657	108	1.65326	0.796882	14.6255	0.913043	0.65625	8079	48.0893	51	38	58
1	29	205.619	335.608	97	1.42453	0.71219	11.7265	0.91254	0.771429	4344	40.2222	41	31	50
1	30	210.061	55.5338	148	1.53037	0.756983	11.1132	0.966071	0.621795	4188	43.1753	44	34	53
1	31	211.883	25.4	180	1.67721	0.802814	13.7123	0.866228	0.669683	4698	31.7432	32	24	39
1	32	231.203	73.9248	133	1.8842	0.847541	15.1388	0.913706	0.692308	8908	49.4889	53	40	58
1	33	243.053	255.215	685	1.84276	0.83995	13.0131	0.93007	0.71123	4560	34.2857	35	26	41
1	34				1.7752	0.82624	29.5325	0.710581	0.465986	29016	42.3591	44	34	52

1	5	36	244.883	44.7186	334	1.70565	0.810104	20.6219	0.885942	70.3158	15694	46.988	49	38
1	5	37	246.434	115.89	143	1.57559	0.725771	13.5875	0.917722	0.697115	4689	32.3379	33	25
1	5	38	245.763	364.332	173	1.45355	0.772514	14.8415	0.905752	0.686508	9292	53.7111	56	44
1	5	39	259.865	297.804	186	1.74551	0.919627	13.7273	0.907975	0.669683	6158	41.6081	44	33
1	5	40	265.892	35.5	180	1.69253	0.806796	15.389	0.925737	0.645833	7714	41.7373	44	34
1	5	41	267.611	474.84	288	1.69734	0.908018	13.1492	0.857313	0.625087	12451	43.2326	45	33
1	5	42	276.033	256.171	152	1.6024	0.798289	13.9116	0.91018	0.703704	6365	41.875	44	34
1	5	43	288.878	481.764	123	1.8018	0.931849	12.5143	0.91791	0.803922	4486	36.4715	38	29
1	5	44	250.075	442.753	146	1.6856	0.805009	13.6343	0.918239	0.737374	5724	39.2055	40	30
1	5	45	305.664	479.541	122	1.79398	0.830231	12.4634	0.917293	0.797386	4489	36.7951	39	43
1	5	46	318.606	113.228	254	1.95523	0.859316	12.9149	0.89065	0.571661	10021	39.4528	42	31
1	5	47	316.634	410.756	131	1.27618	0.72166	12.9149	0.89726	0.658167	7879	60.145	63	48
1	5	48	334.614	418.425	391	1.46851	0.732318	22.3123	0.807851	0.55868	18741	47.9309	47	36
1	5	49	339.399	87.0629	143	1.88512	0.841704	13.4335	0.910828	0.752632	4653	32.5385	24	19
1	5	50	346.943	100.553	219	2.21567	0.892357	16.6985	0.943966	0.756364	5193	23.7123	24	27
1	5	51	348.328	442.77	174	1.41208	0.760034	14.8843	0.935484	0.725	6367	36.592	37	30
1	5	52	356.336	138.177	232	1.8871	0.848032	17.187	0.939271	0.659091	5191	22.375	24	18
1	5	53	363.332	178.751	265	1.66527	0.799621	18.3687	0.908497	0.620532	4291	37.165	38	20
1	5	54	369.601	52.3131	228	1.73712	0.817686	17.0382	0.919355	0.575281	11544	41.5623	45	36
1	5	55	372.972	179.934	213	1.41274	0.706369	16.4682	0.938326	0.747368	9210	43.2384	44	32
1	5	56	374.753	117.607	150	1.29951	0.638622	13.8198	0.943396	0.78125	4877	32.3133	34	27
1	5	57	374.303	311.178	152	1.5454	0.742169	12.9116	0.921212	0.77551	4807	31.625	32	26
1	5	58	377.8	326.522	115	1.15356	0.726189	12.1005	0.932698	0.737119	4437	38.5826	40	30
1	5	59	378.921	363.124	266	1.84987	0.841234	16.4033	0.899562	0.738889	9883	37.1541	39	29
1	5	60	384.356	268.143	230	2.0748	0.872617	17.1127	0.916335	0.575	8281	36.0043	38	29
1	5	61	385.282	482.842	202	1.86255	0.84372	16.0373	0.935185	0.765152	8567	42.4109	45	34
1	5	62	410.504	429.727	139	1.74983	0.820613	13.3034	0.908497	0.620532	4291	37.165	38	20

1	1	132.584	470.016	250	1.71834	0.81219	17.8412	0.929368	0.657895	5098	20.392	21	16
2	1	128.67	178.226	115	1.36792	0.86239	12.1005	0.891473	0.69697	4161	36.1826	38	28
3	1	133.392	321.248	153	1.70893	0.810918	11.9573	0.910714	0.708333	4400	28.7582	39	22
4	1	129.828	361.081	99	1.51368	0.750701	11.2272	0.9	0.692308	4268	43.1111	45	34
5	1	135.862	376.505	196	1.68408	0.804616	15.7973	0.806584	0.640523	9241	47.148	49	37
6	1	136.281	435.62	171	1.60258	0.78143	14.7555	0.909574	0.678571	3972	23.2281	24	18
7	1	133.941	132	118	1.86532	0.844191	12.2573	0.914729	0.670455	4024	34.1017	36	26
8	1	143.395	40.8098	205	2.45832	0.913525	16.1559	0.92423	0.716783	4596	22.4195	24	17
9	1	136.271	497.308	107	2.61388	0.923925	11.672	0.89916	0.629412	4016	37.5327	38	28
10	1	141.448	248.271	181	1.38148	0.889946	15.1808	0.918782	0.709804	8458	46.7293	47	37
11	1	153.392	90.6022	181	1.20958	0.562598	15.1808	0.93299	0.760504	8163	45.0994	47	37
12	1	155.006	138.468	173	1.63706	0.791746	14.8415	0.910526	0.720833	7660	44.2715	45	35
13	1	134.19	371.076	105	1.57167	0.771469	11.5624	0.9375	0.707778	4529	43.1333	45	35
14	1	158.17	311.535	159	1.82167	0.835858	14.2283	0.913793	0.722727	4833	28.0063	29	21
15	1	163.866	62.5155	97	1.30584	0.643091	11.1132	0.92381	0.746154	4091	42.1753	45	35
16	1	163.836	193.575	73	1.35543	0.547937	9.64088	0.879518	0.663636	2333	31.9589	32	26
17	1	164.629	463.971	105	1.05668	0.642774	11.5624	0.905172	0.734266	4096	39.0095	40	30
18	1	168.363	77.1358	91	1.30568	0.410546	10.1554	0.89011	0.736364	3980	49.1358	50	40
19	1	171.28	161.134	91	1.48321	0.738536	10.8817	0.93	0.704545	3451	37.1075	39	30
20	1	171.794	405.46	126	1.43273	0.49743	12.666	0.933333	0.807652	3672	30.7302	32	24
21	1	171.641	222.672	128	1.43273	0.49743	12.666	0.933333	0.807652	3672	30.7302	32	24
22	1	173.67	492.272	203	1.87546	0.845987	16.0769	0.911193	0.751852	5986	44.266	46	34
23	1	178.302	433.735	102	1.81242	0.63401	11.3961	0.87931	0.60355	4289	42.049	43	31
24	1	185.608	86.9987	237	2.75857	0.91981	17.3712	0.92642	0.50641	8974	37.865	41	29
25	1	194.827	300.864	162	1.81442	0.834412	14.3619	0.936416	0.77512	4457	27.5123	28	21
26	1	196.489	331.525	282	1.85568	0.842417	18.9487	0.88125	0.582645	9826	34.844	37	28
27	1	193.333	198.188	69	1.37758	0.68779	9.37302	0.807895	0.784091	2199	31.7246	33	24
28	1	197.394	480.966	142	1.38735	0.693144	13.4462	0.910256	0.682692	4317	30.4034	31	24
29	1	198.995	14.0349	172	1.53588	0.758998	14.7986	0.919786	0.671875	8451	49.1337	51	40
30	1	203.68	182.922	103	1.35888	0.546851	11.4518	0.927928	0.780303	4291	41.6602	44	34
31	1	203.9	144.811	90	1.15049	0.494473	10.7047	0.809091	0.743802	4030	44.7778	47	35
32	1	208.571	113.591	127	1.13094	0.467025	12.7162	0.894366	0.697802	4218	33.2126	35	26
33	1	211.252	482.087	127	1.54916	0.763752	12.7162	0.901143	0.721591	4218	33.2126	35	26
34	1	216.464	54.7969	192	2.5447	15.4535	9.23077	0.705882	0.6852	8652	45.0625	46	35
35	1	217.939	201.412	148	1.21036	0.563371	13.7273	0.930818	0.704762	6994	47.2568	50	39
36	1	216.628	175.718	164	1.70375	0.809629	14.4503	0.921348	0.784689	5629	34.3232	36	28
37	1	218.676	394.959	204	2.15034	0.885288	16.1165	0.910714	0.63354	4637	22.7304	24	18
38	1	220.885	350.827	104	1.29582	0.635975	11.5073	0.928571	0.722222	4228	40.6328	42	31
39	1	229.603	236.64	136	1.42588	0.714626	13.159	0.877419	0.653846	3947	29.0221	30	22
40	1	228.632	467.226	106	1.38212	0.690294	11.6174	0.890756	0.688312	4010	37.8302	39	31
41	1	240.147	249.049	143	2.56519	0.920885	13.4935	0.89375	0.525375	4059	28.3846	29	21
42	1	236.88	341.692	83	1.41995	0.709952	10.28	0.802979	0.709402	4079	49.1446	50	38
43	1	244.699	88.3706	143	1.38306	0.690813	13.4935	0.916667	0.744792	4294	30.028	31	23
44	1	251.232	18.672	125	1.25051	0.588994	12.6137	0.905991	0.740741	4150	33.2	34	27
45	1	253.463	309.288	80	1.63102	0.789994	10.0925	0.905991	0.740741	4150	33.2	34	27
46	1	257.023	44.1698	159	1.56254	0.76839	14.2283	0.929825	0.80303	4305	27.0755	28	21
47	1	259.014	278.879	140	1.7642	0.823835	13.3512	0.915033	0.725	4390	29.6143	31	22
48	1	257.368	332.333	87	1.40256	0.701183	10.5248	0.887755	0.725	4390	50.4598	51	38
49	1	259.629	167.266	124	1.03654	0.263166	12.5651	0.911765	0.733728	4215	33.9919	36	26
50	1	269.735	297.283	113	1.35843	0.676824	11.9948	0.904	0.733766	3856	34.1239	35	26
51	1	273.347	97.7288	118	1.47984	0.737133	12.2573	0.893939	0.670455	3988	33.7542	35	26
52	1	271.644	129.856	118	1.90244	0.850706	12.2573	0.893939	0.670455	3988	33.7542	35	26
53	1	281.493	495.375	296	2.40868	0.909746	19.4134	0.902439	0.560606	18228	61.5811	61	48
54	1	288.973	400.997	367	2.92475	0.939723	21.6166	0.882212	0.50551	14136	38.5177	40	31
55	1	280.46	201.696	125	1.10917	0.432621	12.6157	0.932816	0.801282	4211	33.688	35	26
56	1	289.615	433.563	96	1.45983	0.744771	11.0558	0.90566	0.738482	4561	47.5104	50	37
57	1	293.636	475.985	66	1.19599	0.546538	9.167	0.90411	0.733333	7232	109.576	112	84
58	1	299.794	390.016	126	2.50598	0.916924	12.666	0.9	0.651515	18051	59.9701	61	47
59	1	304.173	264.688	301	1.1758	0.325783	19.5766	0.847887	0.651515	18051	59.9701	61	47
60	1	301.379	169.345	97	1.32239	0.644335	10.5248	0.90625	0.725	3930	45.1724	46	33
61	1	306.688	432.132	112	1.39275	0.696038	11.9416	0.903226	0.717949	4786	42.7321	45	33
62	1	305.333	335.736	33	1.52246	0.744039	6.48204	0.916667	0.673469	5488	166.303	170	138
63	1	310.467	193.859	128	1.81317	0.834161	12.7662	0.914286	0.609524	4222	33.0625	35	26
64	1	310.465	48.1628	129	1.19976	0.52515	12.8159	0.889655	0.661538	4033	31.2636	33	24
65	1	319.984	465.903	124	1.29066	0.6221	12.5651	0.925373	0.733728	4261	34.3629	35	26
66	1	325.932	374.111	235	1.86	0.843179	17.2977	0.925197	0.658263	8846	37.6426	39	29
67	1	324.701	433.828	87	1.30457	0.642199	10.5248	0.915789	0.725	4236	48.6897	51	41
68	1	325.081	446.453	86	1.70754	0.810574	10.4642	0.934783	0.826923	4293	48.8023	51	42
69	1	331.318	24.2634	243	2.42412	0.910948	17.5897	0.815436	0.54	8802	36.5514	37	27
70	1	331.821	91.5446	112	1.38632	0.692387	11.9416	0.918033	0.666667	4149	37.0466	39	30
71	1	332.461	151.078	128	1.36138	0.679607	12.7662	0.907801	0.711111	7759	60.6172	62	49
72	1	335.886	222.69	142	1.72276	0.814285	13.4462	0.934211	0.788889	4647	32.7254	34	26
73	1	350.636	153.236	110	1.39529	0.697386	11.8345	0.901639	0.714286	4340	39.4545	40	30
74	1	354.773	470.773	128	1.72519	0.814669	12.7662	0.927536	0.711111	4253	33.2266	34	25
75	1	356.348	434.774	217	1.87429	0.814669	12.7662	0.927536	0.711111	4253	33.2266	34	25
76	1	357.339	292.338	118	1.22631	0.578819	12.2573	0.914729	0.702381	4199	35.5847	37	28

1	6	106	359.018	312.36	1.78064	0.827412	12.0478	0.897638	0.626374	4181	36.6754	38	45
1	6	107	361.744	169.031	1.60135	0.781048	12.8159	0.908451	0.661538	7536	58.4186	60	71
1	6	108	370.42	126.786	1.62747	0.762786	11.9416	0.903226	0.717949	4218	37.6607	40	46
1	6	109	379.866	101.258	1.21577	0.568727	11.1132	0.896148	0.736848	4146	42.7216	44	34
1	6	110	382.727	404.684	1.74628	0.820259	15.4304	0.912195	0.611111	8630	46.1497	48	36
1	6	111	388.96	193.188	1.82054	0.835633	19.6416	0.907186	0.631125	11210	36.9967	39	29
1	6	112	387.135	337.23	1.75594	0.821995	14.8843	0.915789	0.725	8757	50.3276	52	39
1	6	113	384.868	261.441	1.68261	0.804233	13.159	0.894737	0.633333	19684	33.6544	35	61
1	6	114	401.428	302.432	1.51997	0.753059	22.9591	0.925166	0.636752	5411	36.3154	38	29
1	6	115	399.517	232.544	2.04919	0.872845	13.7736	0.925166	0.636752	5411	36.3154	38	29
1	6	116	414.653	273.039	1.50902	0.748901	22.1116	0.893974	0.601881	5955	28.0286	27	20
1	6	117	424.434	70.7862	1.6314	0.790105	14.2283	0.940828	0.80303	4592	28.8805	29	22
1	6	118	429	16	1.24326	0.594189	11.7806	0.91624	0.762238	3903	35.8073	37	30
1	6	119	434.508	178.295	1.38334	0.690966	12.9641	0.923077	0.733333	4152	31.4545	33	25
1	6	120	442.846	371.2	1.68433	0.80468	22.4261	0.951807	0.801217	10217	25.8658	26	20
1	6	121	435.668	195.209	1.42734	0.713551	10.7641	0.91	0.777778	3764	41.3626	43	33
1	6	122	439.969	245.641	1.74057	0.818488	12.9149	0.891156	0.727778	4284	32.7023	34	25
1	6	123	444.345	472.391	1.52612	0.755618	11.8345	0.92437	0.785714	4269	38.8081	40	29
1	6	124	447.904	87.9989	1.58428	0.775618	15.0545	0.92228	0.69113	4496	25.2697	27	20
1	6	125	450.265	468.54	1.37601	0.689912	11.9948	0.941667	0.807143	4363	38.6106	39	30
1	6	126	454.785	140.613	1.25762	0.664412	11.672	0.90678	0.748252	3888	36.3364	38	29
1	6	127	456.12	159.5	1.2749	0.620284	11.2838	0.925926	0.769231	3858	38.58	41	31
1	6	128	461.271	117.624	1.7004	0.808791	13.0131	0.875	0.59375	4162	31.2932	33	24
1	6	129	463.36	186.899	1.7078	0.810637	18.0893	0.911348	0.679894	9420	36.6537	38	28
1	6	130	472.762	297.523	1.12911	0.464354	11.3401	0.90991	0.765152	8080	80	79	63
1	6	131	477.607	138.476	1.23853	0.589992	13.5875	0.923567	0.739796	4309	29.7172	30	23
1	6	132	477.443	342.586	1.10393	0.423593	12.153	0.913386	0.74359	4237	36.5259	39	30
1	6	133	479.45	22.1651	1.42045	0.710199	11.7806	0.923729	0.778371	4270	39.1743	40	31
1	6	134	485.604	60.2073	2.07652	0.876405	14.4503	0.916201	0.780952	5044	30.7561	33	25
1	6	135	480.397	168.905	1.41513	0.707564	8.95623	0.851351	0.63	6763	107.349	109	85
1	6	136	490.58	254.707	1.55756	0.766678	14.8843	0.935484	0.74359	6842	39.3218	41	31
1	6	137	487.806	313.887	1.60841	0.781631	8.8847	0.898551	0.805195	3893	62.7903	65	51
1	6	138	496.029	331.5	2.09048	0.878165	16.2737	0.922134	0.521303	8892	42.7019	43	32
1	6	139	499.219	7.92708	1.10594	0.427089	11.0558	0.90566	0.721273	4030	41.9782	44	33
1	6	140	498.817	358.104	1.19899	0.551714	12.1005	0.942623	0.804196	4250	36.9465	38	29
1	6	141	501.108	502.892	1.00155	0.555594	10.8817	0.920782	0.768595	3878	41.6989	42	32
1	6	142	513.171	58.4545	1.42754	0.713646	11.2772	0.894832	0.707143	3940	39.798	40	32
1	6	143	22.2857	68.4388	1.39204	0.695662	11.1704	0.890909	0.7	3938	40.1837	42	32
1	6	144	24.3438	345.156	1.39415	0.54657	11.0558	0.923077	0.727273	4129	43.0104	44	34
1	6	145	31.2399	23.5951	1.67369	0.801881	18.5755	0.783237	0.654589	8489	31.3247	32	24
1	6	146	27.97	130.32	1.30965	0.645736	11.2838	0.925926	0.769231	4244	42.44	44	34
1	6	147	30.498	144.626	1.82018	0.835562	12.9149	0.903448	0.727278	5658	43.1908	44	34
1	6	148	30.0086	486.681	1.49932	0.745087	12.153	0.913386	0.686391	4109	35.4224	37	28
1	6	149	38.7195	195.928	1.71096	0.814118	16.7746	0.928571	0.701587	5177	23.4253	24	18
1	6	150	35.513	379.287	1.15651	0.502344	12.1005	0.905512	0.737179	4277	37.1913	38	29
1	6	151	35.7114	414.6	1.37755	0.687772	6.7558	0.894336	0.729167	5404	154.4	164	120
1	6	152	46.23	272.97	1.08978	0.397477	11.2838	0.917431	0.757576	4182	41.82	43	34
1	6	153	49.9159	76.6747	1.28086	0.593048	14.5381	0.917127	0.741071	8273	49.8373	51	40
1	6	154	45.72139	137.087	1.48031	0.737328	13.8658	0.920732	0.719048	5049	34.371	35	26
1	6	155	53.4902	91.1242	1.67967	0.803464	13.9573	0.910714	0.772727	8574	56.0392	58	44
1	6	156	58.2083	30.3333	1.56263	0.768419	11.0558	0.897196	0.666667	3591	37.4063	40	30
1	6	157	66.7215	223.744	1.86308	0.847343	16.6985	0.939914	0.710239	4939	22.8265	24	18
1	6	158	68.2202	489.917	1.93494	0.8561	11.7806	0.872	0.605536	4065	37.2936	38	28
1	6	159	77.1481	261.287	1.46834	0.732245	11.7265	0.915254	0.72	4321	40.0093	42	33
1	6	160	79.8741	132.719	1.62413	0.796019	13.1106	0.9	0.642857	4592	34.0148	36	26
1	6	161	78.1333	311.013	1.25902	0.60757	9.77205	0.914634	0.757576	3898	51.9733	53	42
1	6	162	79.1449	422.848	1.26926	0.61585	13.2555	0.926174	0.766667	4437	32.1522	33	25
1	6	163	86.9679	277.058	2.24154	0.894972	14.0935	0.928571	0.825397	4699	30.1218	31	23
1	6	164	85.8039	368.268	1.70677	0.810381	13.9573	0.916168	0.732057	4526	29.3817	30	23
1	6	165	91.7971	43.0638	1.77297	0.825758	20.9587	0.8625	0.709877	13087	37.9333	39	30
1	6	166	88.3014	327.219	1.28533	0.628398	9.64088	0.935897	0.737374	13087	37.9333	39	30
1	6	167	95.0667	101.005	1.76841	0.824763	15.757	0.942029	0.77381	9668	54.2055	55	43
1	6	168	94.8161	187.977	1.5115	0.749861	14.8843	0.95082	0.78733	4673	48.5795	52	41
1	6	169	95.9318	388	1.57466	0.772463	12.9641	0.891892	0.628571	4467	26.8563	28	21
1	6	170	96.8947	297.728	1.38869	0.693866	12.0478	0.897638	0.74026	4079	33.8409	35	26
1	6	171	104.784	86.024	2.0048	0.66715	14.5819	0.922652	0.722944	9204	35.7807	36	28
1	6	172	100.91	242.72	1.31022	0.659442	11.2838	0.937431	0.769231	4232	55.1136	57	43
1	6	173	105.849	492.497	1.89554	0.847777	14.2283	0.903409	0.679487	4668	29.3585	30	23
1	6	174	108.051	141.037	1.77383	0.825944	13.159	0.918919	0.8	4218	31.0147	31	23
1	6	175	114.5	219.5	1.5001	0.745397	13.7273	0.91358	0.660714	4563	30.8311	32	23
1	6	176	112.544	348.88	1.212674	0.46078	12.6157	0.912409	0.744048	4232	33.856	34	27
1	6	177	122.696	389.301	2.25958	0.896739	21.3797	0.8975	0.543939	21578	60.1058	60	43
1	6	178	118.715	407.616	1.96567	0.860924	12.5143	0.911111	0.587714	4530	36.8293	38	29
1	6	179	125.698	131.671	1.82258	0.816038	13.7736	0.908537	0.712319	4391	29.4698	30	23
1	6	180	127.917	335.719	1.21451	0.817074	15.5336	0.892019	0.695971	4777	25.1421	26	20
1	6	181	129.657	289.657	1.29891	0.638191	11.5624	0.913043	0.729167	3997	38.0667	40	29

1	7	132.931	416.085	118	1.57941	0.77403	12.2573	0.929134	0.7375	4370	37.0339	39	29	44
1	7	141.089	179.484	192	1.86987	0.844981	15.6353	0.91866	0.627451	4755	24.7656	25	19	31
1	7	146.275	477.265	298	1.81175	0.833875	19.4788	0.823204	0.525573	9510	31.9128	33	25	39
1	7	148.752	312.468	141	1.15433	0.499474	13.3988	0.915584	0.723077	4314	30.5957	32	24	37
1	7	148.67	36.7611	203	1.35381	0.674085	16.0769	0.941186	0.763158	9182	45.2315	47	35	55
1	7	151.921	219.534	189	1.68964	0.806053	15.5126	0.935644	0.75	4903	25.9418	26	20	32
1	7	150.379	93.6746	169	1.91984	0.853632	14.6689	0.923497	0.670635	6619	27.5089	28	21	34
1	7	155.972	245.497	187	2.13082	0.871425	15.4304	0.921182	0.636054	7571	40.4866	42	31	49
1	7	155.578	139.748	135	1.54998	0.76404	13.1106	0.921262	0.767045	4292	31.7926	33	25	39
1	7	164.323	388.369	198	2.46046	0.913863	15.8777	0.92093	0.6875	5235	26.4394	27	20	32
1	7	177.089	501.03	336	3.04239	0.944461	20.6835	0.835821	0.738462	9838	29.2798	31	21	37
1	7	175.35	180.975	160	1.74376	0.819225	14.273	0.91954	0.683761	4476	27.975	29	22	34
1	7	182.463	312.893	177	2.06497	0.874919	15.0121	0.907692	0.578431	6096	34.407	36	27	41
1	7	182.062	31.9482	193	1.13599	0.474432	15.6759	0.981279	0.709559	8459	43.829	44	34	53
1	7	183.867	145.944	143	1.68217	0.804117	13.4935	0.999371	0.647059	4328	30.2657	31	24	37
1	7	183.435	436.351	131	1.32047	0.653061	12.9149	0.935714	0.779762	4363	33.1527	34	26	39
1	7	191.742	254.049	398	1.6823	0.804132	22.2265	0.864143	0.646667	18335	27.3397	28	21	33
1	7	167.664	466.48	152	1.63697	0.791121	13.9116	0.921212	0.745098	4421	29.0855	30	22	36
1	7	191.774	354.361	208	2.11997	0.881757	16.2737	0.920354	0.630303	8950	43.0288	44	33	52
1	7	195.537	34.8299	147	2.09237	0.8784	13.6809	0.924528	0.6125	4256	28.9524	34	23	34
1	7	199.765	391.686	226	1.16339	0.511034	16.9633	0.933884	0.738562	8913	39.4381	42	30	49
1	7	202.694	117.496	121	1.8066	0.832832	12.4122	0.883212	0.647059	4298	35.5207	37	27	44
1	7	223.218	472.445	156	1.62289	0.754197	14.0935	0.906977	0.696429	4265	27.3397	28	21	33
1	7	223.645	75.8455	110	1.67258	0.801587	11.9345	0.92437	0.733333	6320	57.4345	61	46	69
1	7	235.35	212.617	206	1.72215	0.814138	16.1953	0.923767	0.754579	4394	21.3301	22	16	27
1	7	230.35	311.387	160	2.02402	0.869424	14.273	0.930233	0.8	7553	47.2062	50	37	57
1	7	229.214	47.3761	117	1.78922	0.829234	12.2053	0.9	0.664773	6538	55.8803	59	44	67
1	7	230.252	426.811	143	1.50452	0.747143	13.4935	0.916667	0.680952	4484	31.3566	32	23	39
1	7	233.37	135.378	127	1.19809	0.502763	12.7162	0.92029	0.755952	4349	34.2441	35	26	42
1	7	239.567	368.239	180	1.3281	0.658072	15.1388	0.923077	0.703125	9241	51.3389	53	40	64
1	7	245.531	256.523	243	1.81026	0.833575	17.5897	0.94186	0.778846	5636	23.1334	24	18	28
1	7	246.538	393.9	130	1.66474	0.799479	12.8655	0.921986	0.666667	4446	34.2	35	26	43
1	7	254.628	478.726	317	1.98668	0.776396	25.9802	0.878116	0.600379	14100	44.4795	44	32	57
1	7	251.756	330.701	127	1.50068	0.745619	12.7162	0.924444	0.742857	9450	36.4488	37	29	45
1	7	272.667	228.453	145	2.18787	0.887254	13.5495	0.92233	0.633333	7294	25.7448	30	24	37
1	7	271.121	89.2349	149	1.58153	0.774724	13.7736	0.91411	0.674208	4196	29.5034	37	28	41
1	7	271.065	418.276	123	1.4177	0.70884	12.5143	0.938931	0.727811	4288	34.8618	37	28	41
1	7	275.814	457.496	129	1.19877	0.551482	12.8159	0.902098	0.709791	4334	30.4861	32	23	36
1	7	281.035	107.674	144	1.36406	0.680115	13.5406	0.91176	0.8	4390	47.5444	49	37	59
1	7	283.372	378.194	180	1.37189	0.684597	15.1388	0.92642	0.75	8558	45.4327	48	35	56
1	7	291.019	305.957	208	1.58493	0.766981	16.2737	0.924444	0.742857	9450	45.4327	48	35	56
1	7	291.844	425.593	135	1.92398	0.854314	13.1106	0.944056	0.833333	4238	31.3926	32	25	42
1	7	302.061	495.620	164	1.18633	0.538012	14.4503	0.906077	0.689076	5496	31.5122	35	25	42
1	7	326.156	400.576	715	2.18841	0.929881	30.1723	0.657169	0.383996	20112	28.1297	29	21	35
1	7	318.028	379.6	180	1.80836	0.833189	15.1388	0.909091	0.625	8018	44.5444	46	34	55
1	7	319.139	480.525	122	1.19159	0.543796	12.4634	0.903704	0.72619	4028	33.0164	35	27	39
1	7	327.788	397.964	165	1.73598	0.817419	14.4943	0.901639	0.654762	4706	28.5212	30	23	34
1	7	338.806	170.942	191	2.02727	0.869874	15.5945	0.896714	0.608349	8694	45.5183	48	37	54
1	7	344.676	379.211	71	1.67896	0.803276	9.50789	0.920256	0.739593	4011	56.493	57	46	69
1	7	353.418	364.282	213	2.08045	0.876904	16.4662	0.918103	0.591667	8798	41.3052	42	32	50
1	7	362.19	94.9241	158	1.5969	0.779653	14.1835	0.913295	0.663866	4870	30.8228	32	24	38
1	7	362.172	330.46	87	1.04982	0.304404	10.5248	0.915789	0.719008	3703	42.5632	44	35	52
1	7	361.328	388.148	61	1.41465	0.707325	8.8192	0.884058	0.7625	3820	62.623	64	51	76
1	7	377.571	322.073	259	1.66998	0.800892	18.1595	0.863333	0.6475	13664	52.7568	51	39	67
1	7	380.455	482.961	231	2.67939	0.927743	17.1499	0.916667	0.712963	5820	25.1948	26	19	31
1	7	383.223	355.843	121	1.30452	0.642169	12.4122	0.916667	0.733333	4088	33.7831	34	27	41
1	7	395.224	337.158	76	2.14008	0.84113	14.3175	0.909605	0.557093	5244	32.5714	34	26	39
1	7	400.468	274.395	203	1.53327	0.765192	9.33698	0.904762	0.730769	3878	51.0263	53	40	62
1	7	403.29	214.595	193	1.85043	0.791954	16.0769	0.922727	0.667163	8751	43.1084	45	32	55
1	7	403.127	351.542	142	1.85043	0.841399	15.6759	0.923445	0.630719	6950	36.0104	37	27	44
1	7	416.389	360.643	126	1.23011	0.582352	13.4462	0.922078	0.728205	4346	30.6056	32	23	37
1	7	423.782	433.085	436	1.31237	0.647598	12.666	0.913043	0.75	4165	33.0556	34	26	40
1	7	429.267	58.6533	150	1.8334	0.838154	23.5612	0.872	0.619318	18633	42.7362	44	33	53
1	7	432.343	209.237	38	1.28378	0.627084	13.8198	0.931677	0.78125	4218	28.12	29	22	36
1	7	442.343	200.857	35	1.71276	0.811859	6.9558	0.826087	0.59375	3012	79.2632	80	61	100
1	7	460.331	222.448	174	1.44058	0.719817	6.7558	0.875	0.729167	2872	82.0571	82	67	100
1	7	463.61	277.99	105	1.75735	0.82231	14.8843	0.934484	0.790909	5908	33.954	35	27	40
1	7	466.516	321.648	122	1.78648	0.828655	11.5624	0.897436	0.625	3901	37.1524	38	30	46
1	7	473.647	472.924	119	1.41784	0.708913	12.4634	0.917293	0.72619	4585	37.582	39	30	45
1	7	482.816	335.798	114	1.70559	0.810088	12.3092	0.868613	0.610256	3984	33.479	35	26	40
1	7	486.5	287.192	104	1.13184	0.468399	12.0478	0.934426	0.797203	4228	37.0877	39	29	44
1	7	497.774	121.27	115	1.15544	0.500355	11.5073	0.896532	0.727273	3893	37.4327	39	29	45
1	7	499.638	314.244	127	1.44336	0.721103	12.1005	0.891473	0.69697	3920	34.087	35	27	41
1	7	502.026	136.756	156	1.47025	0.733067	12.7162	0.913669	0.705556	4436	34.9291	37	28	41
1	7				1.15883	0.505312	14.0935	0.939759	0.8	4744	30.4103	32	23	37

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1	1	11.1154	387.587	104	1.42586	0.712837	11.5073	0.504348	0.673323	3955	38.0288	39	31	46
1	2	9.80303	429.712	66	1.2069	0.55981	9.167	0.88	0.733333	3059	46.3485	48	40	53
1	3	11.6384	443.818	77	1.17652	0.526846	9.90149	0.927711	0.77	2990	38.8312	40	34	44
1	4	14.4143	456.586	70	1.03328	0.251744	9.4407	0.886076	0.7	3970	56.7143	58	46	68
1	5	18.3947	456.586	114	1.263	0.610824	12.0478	0.912	0.730769	3892	38.1406	35	27	41
1	6	21.18	456.586	100	1.52012	0.753156	11.2838	0.884956	0.714286	3840	38.4	39	31	47
1	7	25.1143	456.586	140	1.52652	0.753156	11.2838	0.884956	0.714286	3840	38.4	39	31	47
1	8	25.8148	433.905	189	1.95543	0.859345	13.5126	0.903226	0.673077	4072	28.057	60	51	84
1	9	25.8947	433.905	189	1.95543	0.859345	13.5126	0.903226	0.673077	4072	28.057	60	51	84
1	10	27.688	433.905	189	1.95543	0.859345	13.5126	0.903226	0.673077	4072	28.057	60	51	84
1	11	27.9023	349.684	133	1.47331	0.616885	12.0478	0.903226	0.673077	4072	28.057	60	51	84
1	12	28.693	349.684	133	1.47331	0.616885	12.0478	0.903226	0.673077	4072	28.057	60	51	84
1	13	30.7857	380.439	196	1.31116	0.58642	13.0131	0.917241	0.738899	4208	35.1228	37	28	43
1	14	36.7762	311.455	143	1.80157	0.831803	15.7973	0.903226	0.673077	4072	28.057	60	51	84
1	15	49.0119	37.619	252	1.07859	0.74947	11.9948	0.91129	0.724359	4075	36.6619	37	29	44
1	16	45.7623	133.623	122	1.38906	0.64066	17.9125	0.922561	0.785714	4063	28.4126	29	23	34
1	17	46.7856	203.731	134	1.10508	0.425606	12.4634	0.917293	0.782031	4662	45.3452	45	34	58
1	18	50.717	68.5566	212	1.49816	0.781987	13.0619	0.937093	0.683673	4152	38.2131	39	30	46
1	19	53.3043	461.739	92	1.44718	0.744624	16.4294	0.917749	0.69281	8804	41.5283	42	32	52
1	20	66.0732	162.192	478	1.03578	0.722855	10.823	0.910091	0.69697	3641	39.5761	39	31	49
1	21	64.6333	121.808	120	1.21481	0.260563	24.67	0.910476	0.735365	14880	31.1237	32	24	38
1	22	68.3801	270.181	221	1.5985	0.780155	16.7746	0.895522	0.710039	4070	33.9167	35	27	41
1	23	64.7756	339.558	156	1.54008	0.763371	14.0935	0.923077	0.787879	4298	21.5513	28	21	34
1	24	66.2917	50.0764	144	2.23108	0.893926	13.5406	0.947368	0.8	5206	36.1528	37	28	44
1	25	67.2043	473	93	1.33433	0.62074	10.8817	0.902913	0.65035	3739	40.2043	41	33	49
1	26	72.638	297.915	117	1.44204	0.720491	12.2053	0.906977	0.709091	3961	33.8547	34	26	41
1	27	72.582	401.974	189	2.01167	0.867693	15.5126	0.917476	0.642857	5541	29.3175	30	23	36
1	28	76.6716	134.731	134	1.70384	0.809651	13.0619	0.911565	0.697917	4152	30.9851	33	24	37
1	29	74.6536	109.168	107	1.23867	0.590113	11.672	0.90678	0.748252	4122	38.5234	39	30	47
1	30	85.2585	188.102	147	2.37263	0.906841	13.6609	0.90184	0.668182	4221	28.7823	29	23	36
1	31	84.292	74.7611	113	1.16561	0.513778	11.9948	0.904	0.744359	4168	36.885	38	29	46
1	32	95.8089	208.6	403	1.49429	0.743068	22.6521	0.846639	0.648953	14872	36.9032	37	28	45
1	33	90.5596	140.101	109	1.57451	0.772416	11.7806	0.893143	0.64881	4053	37.1835	39	30	45
1	34	98.5458	463.579	273	1.91669	0.853109	18.6439	0.877814	0.598684	13955	51.1172	52	38	64
1	35	99.1137	247.933	299	1.62483	0.788176	19.5115	0.937304	0.684211	9570	31.0067	33	25	39
1	36	98.2744	37.556	277	2.86601	0.942255	18.78	0.882166	0.502722	7730	27.9061	29	21	34
1	37	98.7634	166.432	93	1.67096	0.801153	10.8817	0.885714	0.65035	3856	41.4624	42	32	50
1	38	108.512	493.449	205	2.13682	0.893736	16.1559	0.911111	0.711806	4628	22.5756	23	17	28
1	39	112.24	441.98	150	1.6123	0.784417	13.8198	0.91677	0.757576	7793	51.9533	53	40	64
1	40	111.812	222.761	117	1.95283	0.85894	12.2053	0.906977	0.787879	4298	21.5513	28	21	34
1	41	113.866	346.631	149	1.39804	0.69828	13.7736	0.91411	0.716346	4233	28.4094	30	21	34
1	42	120.83	411.358	106	1.31794	0.65137	11.6174	0.929825	0.815385	3923	32.0595	33	25	38
1	43	129.929	192.143	84	1.5603	0.50172	10.3418	0.903226	0.694215	2693	37.25	38	28	46
1	44	137.19	454.365	252	1.89597	0.869596	17.9125	0.854237	0.672	9387	37.25	38	28	46
1	45	134.843	128.974	305	2.06323	0.874693	19.7063	0.916675	0.680804	8280	27.1475	28	21	34
1	46	141.141	215.84	319	1.50812	0.748552	19.7063	0.916675	0.680804	8280	27.1475	28	21	34
1	47	137.059	242.798	119	1.33313	0.661111	12.3092	0.913385	0.772727	3584	30.1176	31	24	36
1	48	145.367	17.0986	207	1.77589	0.82639	16.2345	0.924107	0.704082	8592	41.4589	44	32	50
1	49	153.278	413.183	315	1.65246	0.796105	12.1005	0.927419	0.680473	4040	35.1304	37	28	42
1	50	159.463	278.156	136	1.06378	0.341056	13.159	0.937931	0.747253	4230	31.1029	33	25	37
1	51	159.706	91.2227	245	2.00944	0.867377	17.6619	0.924528	0.753846	8913	36.3796	37	28	44
1	52	159.59	393.024	83	1.4086	0.70428	10.28	0.912088	0.691667	3838	46.241	47	37	57
1	53	164.983	500.36	175	1.69183	0.806617	14.9271	0.91623	0.643382	4480	25.6	26	20	31
1	54	170.853	257.131	375	1.34636	0.669575	21.951	0.910194	0.708885	14547	38.792	39	31	48
1	55	177.162	54.2575	167	1.52019	0.753181	14.5819	0.912568	0.701681	5095	30.509	32	24	36
1	56	178.6	387.358	95	1.20724	0.560236	10.9981	0.896226	0.719697	3826	40.2737	40	32	46
1	57	182.152	435.777	224	2.7007	0.928922	16.898	0.896226	0.719697	3826	40.2737	40	32	46
1	58	179.327	459.119	101	1.22641	0.578918	11.3401	0.896226	0.719697	3826	40.2737	40	32	46
1	59	183.359	190.781	128	1.23747	0.598043	12.7662	0.948148	0.820513	2772	39.7129	41	33	48
1	60	185.464	503.145	110	1.86455	0.844013	11.8345	0.887097	0.604396	4156	37.7818	39	29	47
1	61	197.076	139.323	223	1.63285	0.790527	16.8503	0.940928	0.724026	8777	39.3587	39	30	50
1	62	194.681	214.072	138	2.23437	0.894257	13.2555	0.907895	0.766667	4036	29.2464	30	22	36
1	63	199.681	455.08	113	1.71204	0.811682	11.9948	0.91129	0.684848	4036	35.7168	36	27	44
1	64	207.119	282.204	226	1.93002	0.853302	16.9633	0.896825	0.724359	7754	34.3097	36	27	44
1	65	203.444	35.0171	117	1.26158	0.609669	12.2053	0.92126	0.75974	3975	33.9744	35	26	41
1	66	206.23	299.208	178	1.36462	0.680437	15.0545	0.92228	0.706349	6679	31.3828	32	24	39
1	67	210.406	15.8125	128	1.45902	0.728174	12.7662	0.901408	0.711111	4017	37.5225	39	30	46
1	68	220.184	93.6399	461	1.13472	0.472599	24.2273	0.931313	0.770903	18442	40.0043	42	30	50
1	69	225.178	214.767	163	1.11492	0.44218	14.4062	0.926136	0.724444	4374	28.8344	28	21	33
1	70	230.979	235.904	146	1.31912	0.65216	11.5343	0.918239	0.693238	4134	28.3151	29	22	35
1	71	236.673	495.272	346	2.33131	0.903331	20.9851	0.800926	0.518741	10802	31.2197	33	23	39
1	72	235.502	132.659	255	1.7484	0.820288	18.0188	0.897887	0.643939	8918	34.9725	36	27	42
1	73	231.124	381.719	89	1.45186	0.724978	10.6451	0.89899	0.760684	4314	48.4719	47	38	59
1	74	242.741	156.606	251	2.26019	0.896797	17.8769	0.820261	0.603365	9132	36.3825	37	28	45
1	75	239.34	189.296	162	1.7497	0.820584	14.3619	0.89011	0.692308	4184	25.8272	26	20	31
1	76	238.514	24.8551	138	1.77073	0.825269	13.2555	0.92	0.657143	4080	29.5652	30	23	36

1	1	8	77	241.36	45.3128	211	1.69785	0.808148	16.3907	0.946188	0.753571	8135	38.5545	40	30	47
1	1	8	78	241.66	308.241	191	1.60919	0.783463	15.5945	0.927184	0.773279	4321	23.6702	25	18	29
1	1	8	79	249.134	425.698	149	1.63414	0.790903	13.7736	0.93125	0.716346	4359	29.255	30	22	36
1	1	8	80	248.37	378.26	73	1.24745	0.597815	9.64088	0.890244	0.675926	3060	41.9178	43	35	51
1	1	8	81	248.378	398.218	156	1.20066	0.850793	14.0935	0.852459	0.6	9763	62.5833	59	47	80
1	1	8	82	259.586	266.39	182	1.84198	0.839801	15.2227	0.895552	0.594771	4283	23.533	25	19	29
1	1	8	83	273.394	203.322	251	2.33573	0.903716	17.8769	0.831126	0.518595	9000	35.8566	37	26	46
1	1	8	84	273.527	441.305	131	2.15733	0.886078	12.9149	0.89726	0.661816	4492	29.3201	34	26	42
1	1	8	85	273.769	485.615	143	1.38607	0.692449	13.4935	0.928571	0.744792	4196	24.2927	31	23	35
1	1	8	86	278.037	162.951	268	1.50594	0.7477	18.4724	0.930356	0.708995	8918	33.2761	35	26	40
1	1	8	87	278.313	457.267	150	1.60583	0.782443	13.8198	0.898204	0.694444	4322	28.8133	29	23	36
1	1	8	88	282.808	48.0113	177	1.31311	0.67621	15.0121	0.941489	0.786667	4236	23.9322	41	20	28
1	1	8	89	282.118	64	170	1.75669	0.822163	14.7123	0.918919	0.772727	4143	24.3706	26	19	29
1	1	8	90	293.317	412.439	102	1.32413	0.655479	12.9641	0.916667	0.733333	6542	49.5606	50	39	60
1	1	8	91	300.819	214.943	105	1.43507	0.717238	11.5624	0.905172	0.673077	3901	37.1524	39	30	45
1	1	8	92	301.375	365.235	136	1.33237	0.673221	13.159	0.931507	0.747253	7767	57.1103	59	46	69
1	1	8	93	305.595	44.2727	264	1.97196	0.661881	18.334	0.778761	0.592855	8734	33.0833	34	26	40
1	1	8	94	309.638	83.3276	116	1.25302	0.802585	12.133	0.899225	0.637363	6893	59.4224	61	47	73
1	1	8	95	311.672	109.156	179	1.46636	0.73139	15.0967	0.927461	0.724696	6637	34.0588	35	26	42
1	1	8	96	319.228	247.71	272	1.72353	0.814471	18.6097	0.874598	0.618182	9264	59.6346	62	47	72
1	1	8	97	320.663	479.596	312	1.77625	0.778498	19.9311	0.891429	0.619048	18606	31.9493	33	26	38
1	1	8	98	323.679	199.77	296	1.77625	0.826468	19.4134	0.87574	0.770833	9457	43.2328	44	33	53
1	1	8	99	328.266	156.173	335	1.62631	0.788615	20.6527	0.893773	0.745641	9558	39.1721	41	30	47
1	1	8	100	324.84	416.43	244	2.40222	0.909235	17.6258	0.901515	0.53846	4050	34.0336	35	27	41
1	1	8	101	329.622	216.832	119	1.69567	0.807594	12.3092	0.923664	0.775641	4263	35.2314	37	27	43
1	1	8	102	332.686	380.265	102	1.34389	0.668051	11.3961	0.908046	0.692982	4732	30.0759	32	23	37
1	1	8	103	340.491	119.604	106	1.12248	0.454237	11.6174	0.920719	0.736111	4013	38.9314	40	30	47
1	1	8	104	348.5	136.445	110	1.50007	0.745385	11.8345	0.901639	0.654762	4017	37.8585	39	30	46
1	1	8	105	347.429	366.747	91	1.39171	0.864881	10.7641	0.919192	0.631944	3658	40.1978	41	31	50
1	1	8	106	348.818	238.455	121	1.14875	0.492147	12.4122	0.923664	0.775641	4263	35.2314	37	27	43
1	1	8	107	352.032	268.525	158	1.65609	0.797113	14.1835	0.908046	0.692982	4732	30.0759	32	23	37
1	1	8	108	352.05	489.95	119	1.59372	0.778647	12.3092	0.929688	0.704142	4086	34.3361	35	27	41
1	1	8	109	352	395.853	75	1.84593	0.840551	9.77205	0.882353	0.641026	3532	47.0933	49	36	60
1	1	8	110	354.868	111.082	182	1.68499	0.404853	15.2227	0.928571	0.736842	7726	42.4505	44	33	51
1	1	8	111	360.267	337.273	180	1.12392	0.456455	15.1388	0.927833	0.75	8844	49.1333	52	39	59
1	1	8	112	360.8	294.429	105	1.37302	0.685237	11.5824	0.9375	0.807692	3913	37.2857	37	29	45
1	1	8	113	360.621	184.398	116	1.47774	0.736522	12.153	0.885966	0.703033	3983	34.3534	36	27	41
1	1	8	114	368.133	45.8833	180	1.3587	0.676984	15.1388	0.913367	0.666667	4291	23.8389	24	18	29
1	1	8	115	362.3	432.778	90	1.3587	0.676984	15.1388	0.913367	0.666667	4291	23.8389	24	18	29
1	1	8	116	365.721	494.077	104	1.52379	0.805383	10.7047	0.909091	0.75	3718	41.3111	42	32	52
1	1	8	117	368.154	314.356	91	1.52379	0.754535	11.5073	0.912281	0.693333	3903	37.5288	38	31	44
1	1	8	118	372.21	175.807	119	1.31092	0.646607	10.7641	0.91	0.758333	3794	41.8923	42	33	51
1	1	8	119	373.35	213.65	143	1.36563	0.68102	12.3092	0.901515	0.708333	4159	34.9496	36	27	43
1	1	8	120	374.943	76.1478	230	1.0509	0.30746	13.4935	0.9155	0.729992	4315	30.8741	33	24	38
1	1	8	121	379.519	247.099	131	1.22981	0.882319	17.1127	0.955019	0.613333	8527	37.0739	38	29	46
1	1	8	122	385.722	277	115	1.34195	0.66857	12.9149	0.925355	0.71978	4452	33.9847	36	28	40
1	1	8	123	389.102	93.1497	167	1.19258	0.544875	12.1005	0.927419	0.804196	4175	36.3043	38	30	43
1	1	8	124	394.136	163.603	184	1.2864	0.629051	14.5819	0.932961	0.755656	8366	50.0958	52	39	60
1	1	8	125	401.325	17.596	302	1.22161	0.376281	15.3061	0.938776	0.773109	8747	47.538	50	37	57
1	1	8	126	398.503	250.074	312	2.69457	0.928586	19.9311	0.850136	0.484472	9222	57.1755	58	44	70
1	1	8	127	398.398	394.667	93	1.43899	0.707731	19.3091	0.883041	0.719048	17267	37.1755	58	44	70
1	1	8	128	408.33	139.141	227	2.63724	0.935664	17.0007	0.894231	0.715385	3854	41.4409	42	32	51
1	1	8	129	417.863	122.789	175	1.49831	0.744764	14.9271	0.935829	0.493378	4413	19.4405	19	15	25
1	1	8	130	419.559	405.314	102	1.13504	0.473065	11.3961	0.910714	0.708333	4035	39.5588	41	30	43
1	1	8	131	445.338	198.923	234	1.84451	0.840283	17.2609	0.947368	0.782609	9125	38.9957	41	30	48
1	1	8	132	441.946	89.2473	186	1.58902	0.777149	15.389	0.925373	0.775	8002	43.0215	46	34	51
1	1	8	133	447.858	270.362	127	1.23599	0.587112	12.7162	0.927007	0.751479	3960	31.1811	33	25	38
1	1	8	134	447.276	30.0789	76	1.12741	0.461785	9.83598	0.873563	0.690909	3362	44.2368	46	36	55
1	1	8	135	451.223	104.749	175	1.62912	0.78944	14.9271	0.925926	0.767544	7897	45.1257	47	36	54
1	1	8	136	451.809	422.809	110	1.31582	0.649941	11.8345	0.916667	0.705128	5041	36.5909	38	29	45
1	1	8	137	459.594	316.903	165	1.57515	0.772628	14.4943	0.873016	0.705128	5041	30.5515	31	24	37
1	1	8	138	461.477	119.946	111	1.89167	0.848851	11.8882	0.880952	0.652941	3516	31.6757	33	24	39
1	1	8	139	462	394	51	1.38033	0.683309	8.05824	0.910714	0.609574	7047	138.176	140	111	169
1	1	8	140	489.372	225.858	401	2.93477	0.940157	22.5958	0.798805	0.541161	20652	51.5012	51	39	64
1	1	8	141	475.079	114.763	76	1.77782	0.826805	9.83598	0.873563	0.785571	3522	40.2368	41	31	49
1	1	8	142	479.314	244.429	105	1.31337	0.66146	11.5824	0.897436	0.75	3522	33.5429	35	27	40
1	1	8	143	482.952	495.062	146	1.83365	0.838202	15.8776	0.906832	0.737374	5039	34.5137	35	27	42
1	1	8	144	487.34	149.102	197	1.37476	0.686216	10.7641	0.875	0.7	2990	42.6497	44	33	52
1	1	8	145	493.055	44.1978	91	1.24476	0.577363	9.30485	0.883117	0.686869	3341	32.8571	33	25	40
1	1	9	1	501.221	100.897	68	1.22476	0.577363	9.30485	0.883117	0.686869	3341	32.8571	33	25	40
1	1	9	2	12.1194	487.728	134	1.82898	0.871294	13.0619	0.924138	0.788235	4145	30.3328	32	24	37
1	1	9	3	14.3664	58.3893	131	1.71457	0.812303	12.9149	0.929078	0.770588	4166	31.8015	33	25	39
1	1	9	4	17.6605	303.759	162	1.46904	0.732568	14.3619	0.930112	0.680672	7203	44.463	44	35	54
1	1	9	5	14.3913	179.217	23	1.23546	0.58724	5.41152	0.884615	0.766667	2354	102.348	106	85	116
1	1	9	6	15.25												

1	1	9	7	21.2188	364.125	64	1.29361	0.634372	9.02703	0.876712	0.727273	3642	56.9063	57	44	68
1	1	9	8	24.0233	453.946	129	1.82866	0.837231	12.8159	0.921429	0.661538	3872	30.0155	30	23	37
1	1	9	9	33.6629	114.293	140	1.45761	0.72755	13.3512	0.909091	0.729167	4313	30.8071	31	23	38
1	1	9	10	39.9272	251.374	206	1.6479	0.79483	16.1953	0.919643	0.677632	9014	43.7573	45	35	33
1	1	9	11	38.5562	328.843	178	1.06005	0.331795	15.0545	0.927083	0.791111	9196	51.6629	52	38	64
1	1	9	12	39.3667	41.52	150	1.17673	0.327089	13.8198	0.920245	0.765306	4709	31.3933	33	25	38
1	1	9	13	38.3765	362.388	85	1.17688	0.427265	10.4031	0.894737	0.708333	3960	46.8235	49	39	57
1	1	9	14	45.223	24.1727	139	1.40448	0.702172	13.3034	0.958621	0.842424	4279	30.7842	32	25	36
1	1	9	15	57.3316	101.968	187	1.77145	0.823428	15.4304	0.912195	0.667857	4410	23.5829	24	18	29
1	1	9	16	55.8904	62.574	166	1.61579	0.785475	13.6343	0.924031	0.695238	4298	29.4384	30	22	36
1	1	9	17	55.5476	126.373	126	1.31697	0.650718	12.666	0.9	0.692308	4098	32.5238	33	25	40
1	1	9	18	65.4198	170.966	324	2.47752	0.914923	20.3108	0.79803	0.482143	16200	50	52	39	61
1	1	9	19	61.8613	292.138	195	1.65939	0.798019	15.757	0.919811	0.714286	9025	46.2821	48	35	57
1	1	9	20	63.3444	214.022	180	1.7726	0.823678	15.1398	0.904523	0.714286	8730	48.5	50	37	59
1	1	9	21	73.2222	375.178	45	1.42858	0.714145	7.5694	0.918367	0.714286	3366	74.8	74	56	94
1	1	9	22	77.3137	227.052	153	1.46509	0.730839	13.9573	0.921687	0.75	4472	29.2288	30	24	35
1	1	9	23	76.2075	362.453	53	1.46509	0.730839	13.9573	0.921687	0.75	4472	29.2288	30	24	35
1	1	9	24	81.9478	94.3846	192	1.14916	0.492694	8.21472	0.937793	0.736111	3514	66.3019	69	50	80
1	1	9	25	96.0609	317.026	115	1.27679	0.621756	15.6353	0.923077	0.761905	8805	45.8594	47	37	54
1	1	9	26	98.0964	190.328	197	1.25503	0.604248	12.1005	0.921698	0.746793	4048	35.2	36	27	43
1	1	9	27	96.6796	467.951	103	1.14488	0.486908	15.8376	0.920561	0.742465	9740	46.9036	48	36	59
1	1	9	28	102.493	121.97	203	2.0942	0.659926	11.4518	0.895652	0.72028	4108	39.8835	41	31	49
1	1	9	29	100.951	38.6639	122	1.72624	0.818118	12.4634	0.937293	0.622449	3920	32.1311	33	26	39
1	1	9	30	101.027	99.8591	149	1.06847	0.844726	13.7736	0.925466	0.662222	4349	29.1879	30	22	35
1	1	9	31	99.8	243.069	130	1.27609	0.621208	12.8655	0.902778	0.714286	4411	33.9308	35	27	41
1	1	9	32	104.422	439.385	109	1.17019	0.519347	11.7806	0.915966	0.756944	4199	38.5229	39	30	46
1	1	9	33	109.131	54.3367	199	1.51352	0.75064	15.9177	0.929907	0.765385	8907	44.7588	47	34	54
1	1	9	34	109.456	141.911	90	1.30509	0.642565	10.7047	0.918367	0.692308	3953	43.9222	45	35	53
1	1	9	35	110.122	343.843	115	1.22263	0.575349	12.1005	0.912698	0.746793	4134	35.9478	37	28	44
1	1	9	36	116.914	98.9877	81	1.22991	0.58217	10.1554	0.920455	0.818182	4046	49.9506	51	42	59
1	1	9	37	116.582	401.541	98	1.22722	0.57967	11.1704	0.890683	0.742424	3924	40.0408	41	33	48
1	1	9	38	123.37	294.65	200	1.59791	0.719969	15.9577	0.917431	0.714286	9236	46.18	47	35	58
1	1	9	39	128.99	131.02	99	1.28836	0.630508	11.2272	0.9	0.692308	4166	42.0808	42	33	51
1	1	9	40	127.437	444.757	103	1.71763	0.813046	11.4318	0.895552	0.686667	4065	39.466	41	31	48
1	1	9	41	133.758	126.933	277	1.47512	0.735144	18.78	0.923333	0.70844	9756	35.2202	37	26	43
1	1	9	42	134.911	386.933	101	1.15959	0.506271	11.3401	0.909931	0.765152	4129	40.6812	42	33	48
1	1	9	43	139.46	254.46	187	1.82919	0.837336	15.4304	0.916667	0.667857	9071	48.508	50	37	61
1	1	9	44	141.877	492	106	1.45378	0.72584	11.6174	0.929825	0.741259	4157	39.3905	41	32	48
1	1	9	45	146.702	221.56	84	1.39597	0.697744	10.3418	0.903226	0.777778	4112	48.9524	49	36	61
1	1	9	46	150	476.113	106	1.21739	0.570307	11.6174	0.898305	0.741259	4275	40.3302	42	30	49
1	1	9	47	161.276	449.352	105	1.38268	0.606811	11.5624	0.913043	0.681818	4157	46.2852	48	36	56
1	1	9	48	171.014	329.937	284	1.69596	0.94161	19.0158	0.890282	0.473333	13145	42.5842	44	33	52
1	1	9	49	165.614	211.861	101	1.36599	0.681225	11.3401	0.885965	0.706294	4301	44.5842	44	33	52
1	1	9	50	165.713	502.361	122	1.21828	0.571176	12.4634	0.910448	0.72619	4098	33.5902	35	27	41
1	1	9	51	169.352	42.2211	199	1.84139	0.839689	15.9177	0.921296	0.676871	8842	44.4322	46	34	54
1	1	9	52	182.642	191.49	349	1.96965	0.861532	12.0799	0.894872	0.606957	19671	56.3639	59	44	68
1	1	9	53	187.426	251.442	129	1.36425	0.680225	12.8159	0.902098	0.671875	4487	34.7829	35	28	42
1	1	9	54	187.183	418.358	109	1.76088	0.823099	11.7806	0.886179	0.589901	3828	35.1193	36	27	43
1	1	9	55	191.155	51.9	220	1.46325	0.730036	16.7366	0.922203	0.785714	8915	40.5227	41	31	50
1	1	9	56	192.106	128.697	142	1.35316	0.673696	13.4462	0.928105	0.728205	5924	41.7183	44	33	51
1	1	9	57	193.019	443.712	184	1.69536	0.807771	11.5073	0.896552	0.615385	3752	36.0769	36	28	44
1	1	9	58	194.321	366.037	187	2.07196	0.875821	15.4304	0.912195	0.636054	4596	24.5775	25	18	31
1	1	9	59	199.016	484.356	126	1.26109	0.609268	12.666	0.947368	0.807692	4126	32.746	33	25	40
1	1	9	60	207.261	178.63	46	1.54709	0.763022	7.65304	0.836364	0.638889	6268	136.261	142	108	166
1	1	9	61	209.325	373.431	160	2.41839	0.910505	14.273	0.914286	0.634921	4998	28.1125	28	21	36
1	1	9	62	214.169	59.5135	148	1.79868	0.81208	13.7273	0.89697	0.685185	4687	31.6689	33	25	38
1	1	9	63	217.664	231.645	152	1.81213	0.833953	13.9116	0.926829	0.8	4545	29.9013	31	23	36
1	1	9	64	219.311	72.4662	148	1.62943	0.78953	13.7273	0.942675	0.791444	6274	42.3919	43	33	51
1	1	9	65	222.944	99.6111	144	1.47822	0.736453	13.5406	0.917197	0.705882	4420	30.6944	32	24	37
1	1	9	66	222.402	498.069	102	1.44952	0.723919	11.3961	0.894737	0.662338	3950	37.7451	39	30	47
1	1	9	67	227.369	450.393	84	1.22251	0.57523	10.3418	0.933333	0.765638	3723	44.3214	46	36	53
1	1	9	68	232.114	280.992	123	1.40951	0.704741	12.5143	0.924812	0.745455	4194	34.0976	35	26	42
1	1	9	69	235.639	393.325	166	2.34611	0.904612	14.5381	0.907104	0.342484	4447	26.7892	27	20	33
1	1	9	70	234.904	159.211	209	1.50663	0.747971	16.3128	0.93722	0.765568	9114	43.6077	46	35	54
1	1	9	71	236.104	297.94	134	1.48761	0.740352	13.0619	0.911565	0.761364	4302	32.1045	33	25	39
1	1	9	72	237.048	27.3842	104	1.59005	0.777477	11.5073	0.912281	0.693333	3989	38.3558	40	31	47
1	1	9	73	242.184	51.7053	207	1.81456	0.83444	16.2345	0.907895	0.723776	7036	33.9503	33	23	43
1	1	9	74	242.764	78.9857	140	1.39685	0.698205	13.3512	0.903226	0.666667	4272	30.5143	31	23	38
1	1	9	75	245.917	439.287	108	1.58813	0.776862	11.7265	0.931034	0.8	4021	37.2315	38	29	45
1	1	9	76	242.39	397.256	172	1.71191	0.811652	14.7986	0.900524	0.646617	4653	27.0523	28	21	33
1	1	9	77	265.139	261.344	294	1.5947	0.778957	15.3477	0.88024	0.665158	9550	32.483	34	24	40
1	1	9	78	267.579	39.9331	254	1.38602	0.694424	17.9834	0.882319	0.711485	9097	35.815	35	27	43
1	1	9	79	276.18	118.626	278	1.38602	0.694424	17.9834	0.882319	0.711485	9097	35.815	35	27	43
1	1	9	80	277.402	11.082	122	1.34993	0.671149	12.4634	0.924242	0.72619	4199	34.418	36	28	41
1	1	9	81	285.594	491.97	298	1.62601	0.788526								

1	1	9	83	283.646	101.811	127	1.6886	0.805787	12.7162	0.913659	0.681458	4625	36.4173	37	29	44
1	1	9	84	284.665	440.671	173	0.759964	0.759964	14.8415	0.923134	0.758772	7670	44.3353	46	35	54
1	1	9	85	281.69	289.917	84	1.53854	0.758811	10.3418	0.903226	0.646154	4211	50.131	51	39	54
1	1	9	86	286.312	80.481	154	1.23337	0.708786	14.0028	0.916667	0.733333	4526	29.3896	30	23	36
1	1	9	87	292.989	305.311	90	1.08786	0.393714	10.7047	0.909091	0.743802	4134	45.9333	45	36	56
1	1	9	88	300.374	47.9346	107	1.37271	0.685059	11.672	0.89916	0.764286	4067	38.0093	39	29	46
1	1	9	89	302.5	332.755	106	1.53544	0.758839	11.6174	0.938053	0.84127	4700	44.3396	44	36	54
1	1	9	90	305.561	348.784	148	2.38785	0.908085	13.7273	0.840909	0.528571	8947	60.4327	60	41	74
1	1	9	91	305.159	364.341	44	1.29753	0.637205	7.48482	0.846154	0.6875	3760	85.4345	88	65	106
1	1	9	92	313.183	388.246	224	2.05865	0.874094	16.988	0.914286	0.59893	9246	41.2768	43	32	50
1	1	9	93	312.337	342.253	359	2.13587	0.883626	21.3797	0.810384	0.509841	19817	55.2006	56	42	69
1	1	9	94	315.082	322.148	182	1.48417	0.738934	15.2227	0.928571	0.716842	9474	52.0549	55	41	64
1	1	9	95	322.65	51.4724	163	1.82189	0.835902	14.4062	0.910615	0.639216	4364	26.773	28	20	32
1	1	9	96	327.5	256.405	158	1.62078	0.624816	14.1835	0.923977	0.752381	4988	31.5696	33	25	38
1	1	9	97	343.743	422.568	241	1.64439	0.794838	17.1172	0.895911	0.634211	9916	41.1452	42	31	51
1	1	9	98	342.921	46.3444	151	1.33418	0.794838	17.1172	0.895911	0.634211	9916	41.1452	42	31	51
1	1	9	99	344.143	139.607	28	1.12668	0.661977	13.8658	0.920732	0.725962	4249	28.1391	29	22	34
1	1	9	100	352.064	283.676	173	1.60966	0.460686	5.97082	0.875	0.666867	5659	202.107	215	166	238
1	1	9	101	356.062	396.634	145	1.37417	0.783613	14.8415	0.933135	0.588772	4999	27.1618	28	21	33
1	1	9	102	358.12	38.9016	217	2.28678	0.893318	16.6221	0.929487	0.74359	8423	58.0897	60	47	69
1	1	9	103	358.408	69.4079	76	1.23277	0.78432	9.3698	0.874241	0.690909	7205	94.8026	99	76	114
1	1	9	104	358.164	137.455	11	1.13976	0.478395	3.74241	0.785714	0.6875	210	19.0909	19	14	22
1	1	9	105	370.203	313.176	148	1.83856	0.839147	13.7273	0.922222	0.621849	4306	29.0946	30	22	35
1	1	9	106	373.012	202.524	166	2.28347	0.89011	14.5381	0.922222	0.65073	4596	27.6867	29	21	34
1	1	9	107	377.777	170.057	404	1.31694	0.650698	22.6801	0.930876	0.708294	20716	51.2772	52	38	64
1	1	9	108	384.138	243.899	328	1.6475	0.794718	20.4358	0.931818	0.788462	12022	36.6524	37	27	46
1	1	9	109	375.638	462.116	69	1.52244	0.75403	9.37302	0.896104	0.627273	3544	51.3623	52	41	62
1	1	9	110	383.181	491.839	155	1.6691	0.800655	14.0482	0.922619	0.645833	5726	36.9419	38	29	45
1	1	9	111	392.202	297.197	213	1.27925	0.623648	16.4682	0.926087	0.739583	6337	29.7512	30	22	38
1	1	9	112	391.713	407.231	195	1.80111	0.831707	15.757	0.924171	0.714286	9007	46.1897	48	35	58
1	1	9	113	404.037	455.366	82	1.57912	0.773937	10.2179	0.911111	0.759259	3945	48.1098	51	38	59
1	1	9	114	418.117	476.067	60	1.24455	0.595299	8.74039	0.869565	0.666667	4998	83.3	83	63	101
1	1	9	115	430.121	389.29	124	1.23756	0.589125	12.5651	0.905109	0.738095	4216	34	35	26	41
1	1	9	116	434.672	217.156	250	1.45536	0.72655	17.8412	0.93985	0.730934	9416	37.664	39	30	46
1	1	9	117	430.222	486.361	72	1.21482	0.567797	9.57461	0.878049	0.72	3740	51.9444	52	41	61
1	1	9	118	438.356	245.69	323	1.93418	0.967156	20.2795	0.813602	0.419481	11119	34.4241	36	27	42
1	1	9	119	444.212	361.171	316	2.27398	0.861116	20.0585	0.863388	0.548611	17939	56.769	58	43	71
1	1	9	120	441.239	288.096	230	1.75024	0.820706	17.1127	0.927419	0.684524	9461	41.1348	42	31	51
1	1	9	121	442.21	57.6643	143	1.34234	0.667097	13.4935	0.922581	0.744792	8260	37.7622	60	45	70
1	1	9	122	441.885	437.769	52	1.40181	0.700756	8.13686	0.896552	0.742857	3533	67.9423	70	53	81
1	1	9	123	450.907	139.683	161	2.22932	0.893749	14.3175	0.92	0.731818	4391	27.2733	27	20	35
1	1	9	124	453.118	424.193	119	1.29823	0.637708	12.3092	0.901515	0.708333	4146	34.8403	36	27	42
1	1	9	125	452.477	462.156	128	1.1575	0.503605	12.7662	0.920863	0.757396	4293	33.5391	35	26	40
1	1	9	126	455.773	440.5	44	1.23615	0.58786	7.4882	0.88	0.785714	3328	75.6364	77	62	90
1	1	9	127	474.277	407.954	130	1.41995	0.709952	12.8635	0.915493	0.714286	7021	54.0077	56	44	66
1	1	9	128	479.27	187.428	152	1.88858	0.740748	13.9116	0.853933	0.633333	4951	32.5724	33	26	40
1	1	9	129	479.157	215.248	121	1.27349	0.61919	12.4122	0.902985	0.715976	4343	35.8926	37	28	43
1	1	9	130	480.898	10.1837	49	1.4708	0.733302	7.69865	0.907407	0.777778	5991	120.224	122	92	147
1	1	9	131	485.018	132.365	168	1.6403	0.792675	14.6235	0.933333	0.777778	4290	25.5357	26	20	32
1	1	9	132	488.025	230.944	160	1.36575	0.68109	14.273	0.946716	0.784314	8081	50.5063	53	41	62
1	1	9	133	489.527	41.2545	165	1.47325	0.73435	14.4943	0.916622	0.705128	4206	25.4909	27	20	31
1	1	9	134	488.927	311.45	191	1.39613	0.697829	15.5945	0.927184	0.702206	9350	48.9529	50	38	60
1	1	9	135	493.91	94.3349	212	2.14811	0.84034	16.4294	0.921739	0.658385	7500	35.3774	38	29	41
1	1	9	136	495.135	339.708	192	1.32749	0.657674	15.6353	0.932039	0.761905	8831	45.9948	48	36	55
1	1	9	137	497.039	369.388	178	2.12112	0.881893	15.0545	0.92222	0.706349	6413	36.0281	38	27	44

APPENDIX B

Example of the summary output of AnalyseDNA.m program
(summary for 10 3 by 3 montage images)

1	1187	163.912	79.3918	1.59849	0.398735	0.726461	0.137996	14.5612	3.315	0.905327	0.0350365	0.701248	0.075176	6449.26	3496.95	41.539	18.352	42.9444	18.9393
2	32.4103	14.334	50.5906	22.6584	0.399942	0.727835	0.138462	14.2634	3.43288	0.904571	0.0341453	0.70177	0.0730289	6786.37	3895.1	42.2416	17.0965	43.8245	17.583
3	31.0245	13.3362	51.3609	21.2507	0.397935	0.72552	0.13163	14.0853	3.33904	0.905267	0.0361822	0.702891	0.0720005	6881.08	3525.81	44.7167	20.5918	46.3838	21.2287
4	34.8313	16.2052	54.4417	25.1765	0.389682	0.727142	0.142518	14.3531	3.61812	0.902766	0.0374254	0.695945	0.0753889	6997.68	4212.87	43.1798	19.8582	44.9561	20.5112
5	33.7349	15.9902	52.505	24.193	0.400493	0.721084	0.141204	14.338	3.65065	0.904152	0.0379804	0.70023	0.0756884	7050.22	4163.04	44.0559	21.4761	45.8522	22.1282
6	34.3315	16.6358	53.6367	26.5398	0.425512	0.728414	0.133721	14.0974	3.39686	0.904614	0.0362731	0.696204	0.0782855	6843.2	3924.12	44.266	19.3396	45.9485	19.8324
7	34.5444	15.2864	53.9055	23.8472	0.451022	0.694813	0.185667	11.728	5.27441	0.893311	0.0481729	0.704526	0.0892393	5162.51	4393.11	34.9743	21.1969	36.16	22.0024
8	26.8901	17.0421	43.0689	25.6082	0.405467	0.723421	0.137599	14.3833	3.40593	0.906384	0.0357179	0.702574	0.0751602	6865.87	3767.48	42.2752	17.2223	43.9781	17.7621
9	33.0602	13.7194	51.3961	20.956	0.404986	0.72668	0.138548	14.1402	3.47794	0.905208	0.0356298	0.700331	0.0766773	6576.54	4022.38	41.6064	17.8994	43.163	18.2499
10	32.3669	13.8149	50.6976	22.2407	0.400372	0.717147	0.139085	13.8205	3.49536	0.904275	0.0379111	0.702759	0.07572	6587.18	3788.39	44.2141	20.7694	45.8765	21.136
	34.4582	16.3199	53.7958	25.6094															